SEARS

# 

MODEL NUMBER 917.257632 OWNER'S MANUAL

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts



CAUTION: Read and follow all safety rules and instructions before operating this equipment.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.



#### **SAFETY RULES**

#### Safe Operation Practices for Ride-On Mowers



IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

#### I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- · Turn off blades when not mowing
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

#### II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

#### DO:

- · Mow up and down slopes, not across.
- · Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments.
   These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

#### DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

#### III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up.
   Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

**CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your unit properly. Always observe the "SAFETY RULES".

| MODEL<br>NUMBER  | 917.257632  |
|------------------|---|
| SERIAL<br>NUMBER |   |
| DATEOFPU         | RCHASE  |
| 1                | AND SERIAL NUMBERS WILL BE FOUND<br>E UNDER THE SEAT.                       |
| DATE OF PU       | DRECORD BOTH SERIAL NUMBER AND RCHASE AND KEEP IN A SAFE PLACE E REFERENCE. |

#### MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

#### **CUSTOMER RESPONSIBILITIES**

- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your unit.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

#### PRODUCT SPECIFICATIONS

| ## HORSEPOWER: 13.0  GASOLINE CAPACITY   |
|--|
| AND TYPE: UNLEADED REGULAR  OIL TYPE (API-SF/SG): SAE 30 (above 32°F) SAE 5W-30 (below 32°F)  OIL CAPACITY: 3 PINTS  SPARK PLUG: CHAMPION RJ19LM (GAP: .030") STD361458  VALVE CLEARANCE: INTAKE: .005"007" EXHAUST: .009"011"  GROUND SPEED (MPH): FORWARD: 1st 1.02 2nd 1.35 3rd 2.10 4th 3.14 5th 4.00 6th 5.12 |
| SAE 5W-30 (below 32°F)  Oil CAPACITY: 3 PINTS  SPARK PLUG: CHAMPION RJ19LM STD361458  VALVE CLEARANCE: INTAKE: .005"007" EXHAUST: .009"011"  GROUND SPEED (MPH): FORWARD: 1st 1.02 2nd 1.35 3rd 2.10 4th 3.14 5th 4.00 6th 5.12  |
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| 1st 1.02<br>2nd 1.35<br>3rd 2.10<br>4th 3.14<br>5th 4.00<br>6th 5.12   |
|  |
| TIRE PRESSURE: FRONT: 14 PSI<br>REAR: 12 PSI   |
| CHARGING SYSTEM: 3 AMPS BATTERY 5 AMPS HEADLIGHTS  |
| BLADE BOLT TORQUE: 30-35 FT. LBS.  |

warning: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center/Department (See REPAIR PARTS section of this manual).

### LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two (2) years from the date of purchase, if this riding equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners and belts.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the
  equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

#### LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

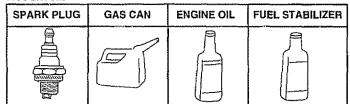
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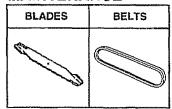
### ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available through most Sears retail outlets and service centers when the tractor was purchased. Most Sears stores can order these items for you when you provide the model number of your tractor.

#### ENGINE



#### MAINTENANCE



#### **PERFORMANCE**

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. Contact your nearest Sears store for the accessories and attachments that are available for your tractor.

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in Steel weight tray for increased penetration.

**BAGGER** lets you collect grass clippings and leaves for a healthier, neater looking lawn. Two Permanex containers hold 30-gallon plastic bags.

BUMPER protects front end of tractor from damage.

CARTS make hauling easy. Variety of sizes available, plus accessories such as side panel kits, tool caddy, cart cover, protective mat and dolly.

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips. 150 lb. capacity weight tray.

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain.

GANG HITCH lets you tow 2 or 3 pull-behind attachments at once, such as sweepers, dethatchers, aerators (not for use with rollers, carts or other heavy attachments).

**GAUGE WHEELS** on both sides of the mower deck reduce chances of "scalping" on uneven terrain. For mower decks not so equipped.

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting. HIGH PERFORMANCE REEL-ACTION SPRING TINE DETHATCHER covers 36-inch wide path and tosses thatch into large hopper. Mounts behind tractor.

MULCHING CLOSE-OUT PLATE KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3-in-1 Convertible mowers. See "MOWER" in the Repair Parts section of this manual

**RAMP TOPS AND FEET** let you load and unload tractor from a pickup truck. Use with 2 x 8 or 2 x 10 lumber.

ROLLER for smoother lawn surface. 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum.

SNOW BLADE for snow removal only. 14-inch high, 42-inch wide blade clears 38-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains and wheel weights and/or rear drawbar weight.)

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides and liquid fertilizers.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular deicers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! Optional accessories convert unit for dethatching, aerating, hilling....without tools.

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

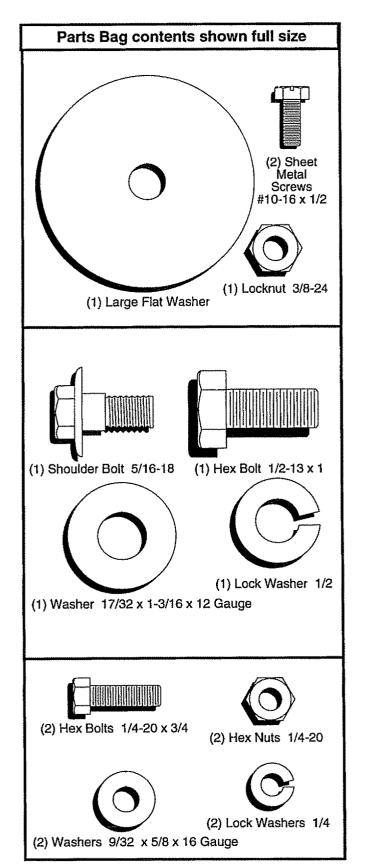
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

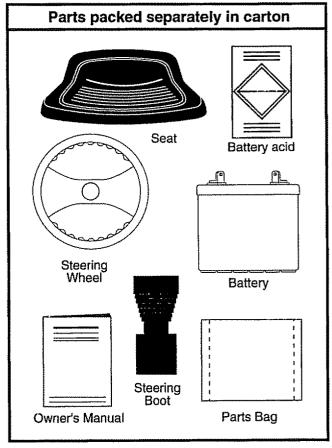
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

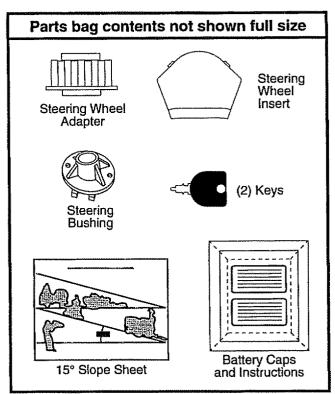
WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

# **CONTENTS OF HARDWARE PACK**







### **ASSEMBLY**

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

#### **TOOLS REQUIRED FOR ASSEMBLY**

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

(1) 5/16" wrench

(1) 3/4" wrench

(2) 7/16" wrenches

Tire pressure gauge

(1) 1/2" wrench

Utility knife

(1) 9/16" wrench

When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

#### TO REMOVETRACTOR FROM CARTON

#### UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

#### BEFORE ROLLINGTRACTOR OFF SKID

#### ATTACH STEERING WHEEL (See Fig. 1)

- · Slide the steering bushing over the steering shaft.
- Raise steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) sheet metal screws and tighten securely.
- Position steering boot over steering shaft.
- Place tabs of steering boot over tab slots in dash and push down to secure.
- Slide steering wheel adapter onto upper steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Assemble large flat washer and 3/8-24 locknut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

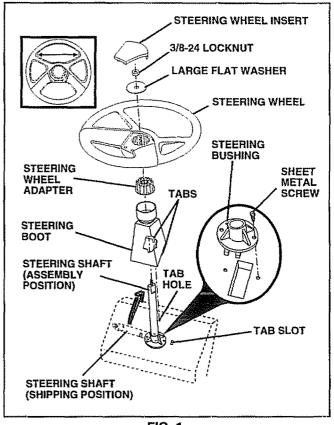


FIG. 1

#### TO ROLL TRACTOR OFF SKID (See Fig. 6)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Holl tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

### **ASSEMBLY**

#### **HOW TO SET UP YOUR TRACTOR**

#### PREPARE BATTERY (See Fig. 2)

CAUTION: Wear eye and face shield.



Wash hands or clothing immediately if accidentally in contact with battery acid.

Do not smoke. Fumes from charged battery acid are explosive.

Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the battery cell acid level. If below the vent wells, add more acid until the correct level is reached.

While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of tractor.

IMPORTANT: TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE.

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to two gallons of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- · Follow instructions on how to install battery.

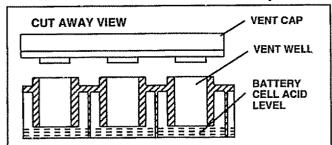


FIG. 2

#### **INSTALL SEAT (See Fig. 3)**

Adjust seat before tightening adjustment bolt.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment bolt, lock washer and flat washer loosely. Do not tighten.
- · Tighten shoulder bolt securely.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt securely.

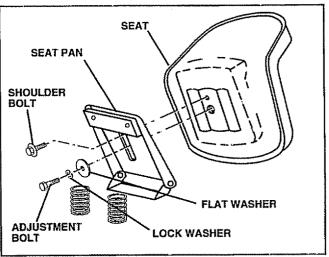


FIG. 3

#### CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

#### **CHECK DECK LEVELNESS**

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

# CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

#### **CHECK BRAKE SYSTEM**

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

### ASSEMBLY

#### **INSTALL BATTERY (See Figs. 4 and 5)**



CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift seat to raised position.
- · Open battery box door.
- Be sure battery drain tube is attached to battery box.
- Lower battery into battery box with battery terminals toward front of tractor.
- First connect RED battery cable to positive (+) terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt, flat washer, tock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging .

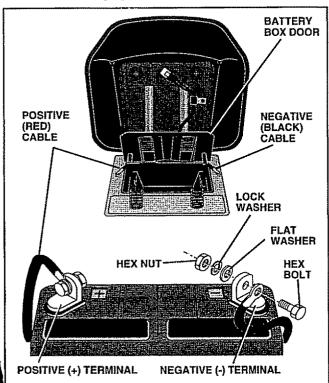


FIG. 4

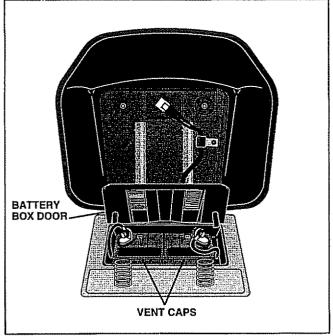


FIG. 5

#### ✓ CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- Engine oil is at proper level.
- Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- Become familiar with all controls their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

#### KNOW YOUR TRACTOR

#### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

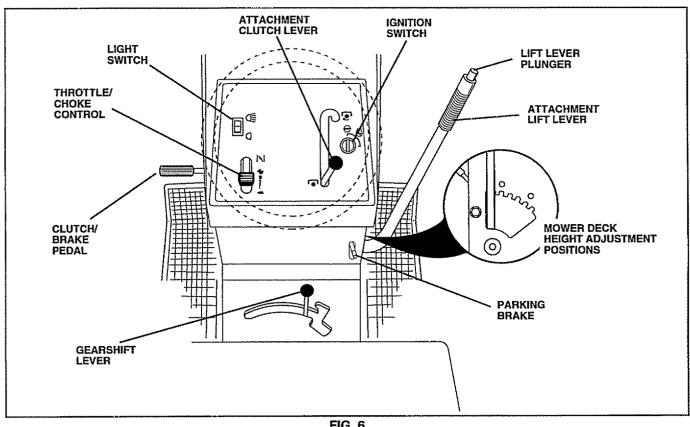


FIG. 6

Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER: Used to engage the mower blades, or other attachments mounted to your

LIGHT SWITCH: Turns the headlights on and off.

THROTTLE/CHOKE CONTROL: Used for starting and controlling engine speed.

CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine.

PARKING BRAKE: Locks clutch/brake pedal into the brake position.

GEARSHIFT LEVER: Selects the speed and direction of tractor.

ATTACHMENT LIFT LEVER: Used to raise, lower, and adjust the mower deck or other attachments mounted to vour tractor.

LIFT LEVER PLUNGER: Used to release attachment lift lever when changing its position.

IGNITION SWITCH: Used for starting and stopping the engine.



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask for over the spectacles or standard safety glasses.

#### HOW TO USE YOUR TRACTOR

#### TO SET PARKING BRAKE (See Fig. 7)

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold vehicle secure.

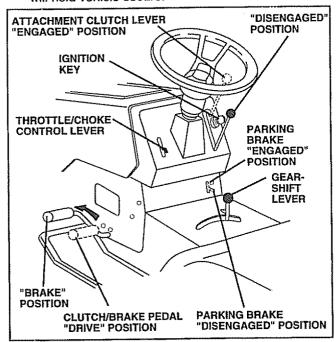


FIG. 7

#### STOPPING (See Fig. 7)

**MOWER BLADES -**

Move attachment clutch lever to "DISENGAGED" position.

#### **GROUND DRIVE -**

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.

#### **ENGINE** -

Move throttle control to slow (
 position.

**NOTE:** Failure to move throttle control to slow ( position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

**NOTE:** Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

#### TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

# TO MOVE FORWARD AND BACKWARD (See Fig. 7)

The direction and speed of movement is controlled by the gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- · Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

# TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

#### TO OPERATE MOWER (See Fig. 8)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

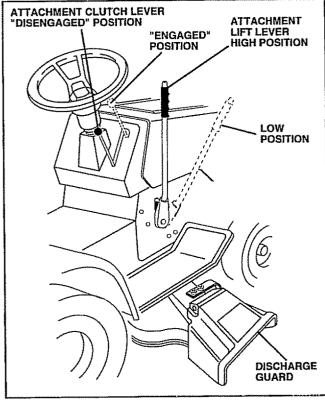


FIG. 8

#### TO OPERATE ON HILLS



CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

#### TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

**NOTE**: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

### BEFORE STARTING THE ENGINE

#### CHECK ENGINE OIL LEVEL (See Fig. 14)

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

#### ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

#### TO START ENGINE (See Fig. 7)

When starting engine for the first time or if engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to choke (|ੑੑੑਖ਼ੑ) position for cold engine start. For warm engine start, move throttle control to fast (♣) position.
- Insert key into ignition and turn key clockwise to "START"
   position and release key as soon as engine starts. Do
   not run starter continuously for more than fifteen
   seconds per minute. If engine does not start after
   several attempts, move throttle control to fast (4)
   position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

**NOTE:** If at a high altitude (above 3000 feet) or in cold temperatures (below 32°F), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

#### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 9).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

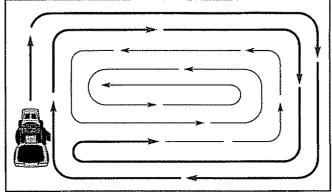


FIG. 9

| FIL<br>AS | AINTENANCE SCHEDULE<br>L IN DATES<br>YOU COMPLETE<br>GULAR SERVICE | R        | EFORE E | RST 2 | SE<br>HOURS<br>VERY 8 | HOURS<br>VERY ? | NERY E       | HOUR'S | O HOUR<br>VERY S | S<br>ASON<br>EFORE | SER     | GE<br>VICE | E DA" | res |
|-----------|--|----------|---------|-------|-----------------------|-----------------|--------------|--------|------------------|--------------------|---------|------------|-------|-----|
|           | Check Brake Operation  | V        |         | V     |                       |                 |              |        |                  |                    |         |            |       |     |
|           | Check Tire Pressure  | V        |         | 1     |                       |                 |              |        |                  |                    |         |            |       |     |
| T         | Check for Loose Fasteners  | V        |         |       |                       |                 | 1/7          |        | 1                |                    |         |            |       |     |
| Ŗ         | Sharpen/Replace Mower Blades                                       |          |         |       | 14                    |                 |              |        |                  |                    |         |            |       |     |
| A         | Lubrication Chart  |          |         |       | /                     |                 |              |        | V                |                    |         |            |       |     |
| Ť         | Check Battery Level/Recharge                                       |          |         |       | <b>1</b> 6            |                 |              |        |                  |                    |         |            |       |     |
| 0         | Clean Battery and Terminals  |          |         |       | <b>V</b>              |                 |              |        | 1                |                    |         |            |       |     |
| R         | Check Transaxle Cooling  |          |         |       | 1                     |                 |              |        |                  |                    |         |            |       |     |
|           | Adjust Blade Belt(s) Tension                                       |          |         |       | <u> </u>              |                 | V 5          |        |                  |                    |         |            |       |     |
|           | Adjust Motion Drive Belt(s) Tension                                | <u> </u> |         |       |                       |                 | 1/5          |        |                  |                    | <u></u> |            |       |     |
|           | Check Engine Oil Level   | V        |         | 1     |                       |                 |              |        |                  |                    |         |            |       |     |
|           | Change Engine Oil  |          | 1       |       | V1,2,3                |                 |              |        | 1                |                    |         |            |       |     |
| E         | Clean Air Filter   |          |         |       | <b>1</b> 2            |                 |              |        |                  | <u> </u>           |         |            |       |     |
| N         | Clean Air Screen   |          |         |       | <b>1</b> 2            |                 |              |        |                  |                    |         |            |       |     |
| G         | Inspect Muffler/Spark Arrester                                     |          |         |       |                       | V               |              |        |                  |                    |         |            |       |     |
|           | Replace Oil Filter (If equipped)                                   |          |         |       |                       |                 | <b>V</b> 1,2 |        |                  |                    |         |            |       |     |
| NE        | Clean Engine Cooling Fins  |          |         |       |                       |                 | <b>V</b> 2   |        |                  |                    |         |            |       |     |
| -         | Replace Spark Plug   |          |         |       |                       |                 | 1            | ~      |                  |                    |         | 1          |       |     |
|           | Replace Air Filter Paper Cartridge                                 |          |         |       |                       |                 | <b>√</b> 2   |        |                  |                    |         |            |       |     |
|           | Replace Fuel Filter  |          |         |       |                       |                 |              | 1      |                  |                    |         |            |       |     |

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with all filter, change all every 50 hours
- 4 Replace blades more often when mowing in sandy soil

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front exte pivot bolt to 35 ft.-ibs. maximum. Do not overlighten.

#### **GENERAL RECOMMENDATIONS**

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

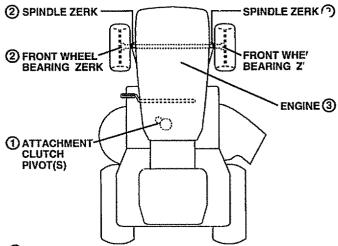
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

#### **BEFORE EACH USE**

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.

#### **LUBRICATION CHART**



- (1) SAE 30 OR 10W30 MOTOR OIL
- **(2) GENERAL PURPOSE GREASE**
- (3) REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

#### **TRACTOR**

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

#### **TIRES**

- Maintain proper air pressure in all tires (See "PROD-UCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace bent or damaged blades.

#### **BLADE REMOVAL (See Fig. 10)**

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

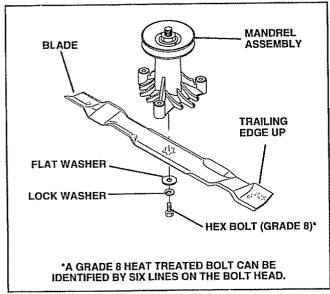


FIG. 10

#### TO SHARPEN BLADE (See Fig. 11)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground.
   If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

**NOTE:** Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

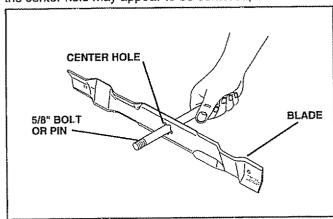


FIG. 11

#### **BATTERY (See Fig. 12)**

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

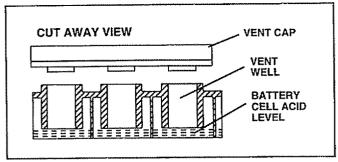


FIG. 12

#### TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in the Assembly section of this manual).

#### V-BELTS

Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

#### TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

#### **ENGINE**

#### **LUBRICATION**

Only use high quality detergent oil rated with API service classification SF or SG. Select the oil's SAE viscosity grade according to your expected operating temperature.

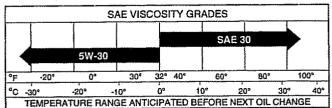


FIG. 13

**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

#### TO CHANGE ENGINE OIL (See Figs. 13 and 14)

Determine temperature range expected before oil change. All oil must meet API service classification SF or SG.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.

- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

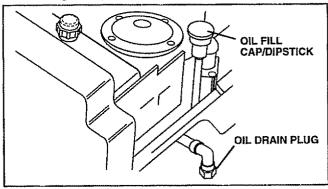


FIG. 14

#### AIR FILTER (See Fig. 15)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

Remove knob(s) and cover.

#### TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

#### TO SERVICE CARTRIDGE

- Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

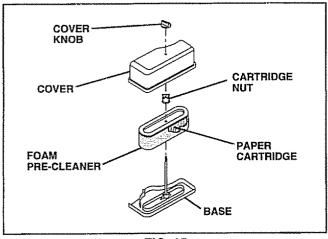


FIG. 15

#### **CLEAN AIR SCREEN (See Fig. 16)**

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

#### ENGINE COOLING FINS (See Fig. 16)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- Remove screws from blower housing and lift housing and oil fill tube assembly off engine.
- Cover oil fill opening to prevent entry of dirt.
- Remove the screws securing the starter housing and lift housing off engine.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.

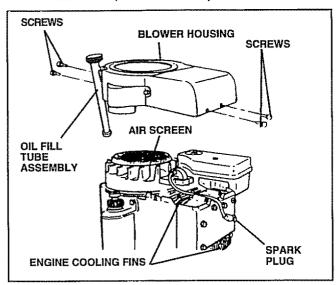


FIG. 16

#### MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

#### SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

#### IN-LINE FUEL FILTER (See Fig. 17)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

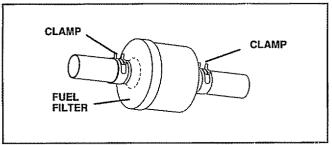


FIG. 17

#### CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.



#### **CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:**

- Depress clutch/brake pedal fully and set parking brake.
- · Place gearshift lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

#### TO REMOVE MOWER (See Fig. 18)

Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER IS TO BE MOUNTED TO THE TRACTOR, THE R.H. AND L.H. SUSPENSION ARMS MUST BE REMOVED FROM TRACTOR.

#### TO INSTALL MOWER (See Fig. 18)

- · Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

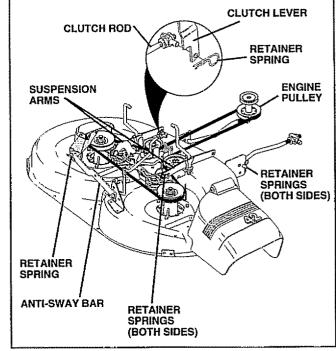


FIG. 18

#### TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

- · Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE:** Each full turn of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.

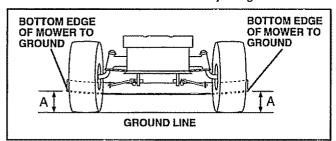


FIG. 19

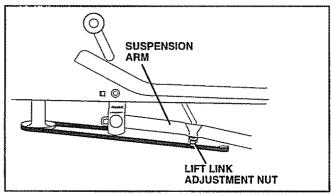


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF
THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS
NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS
EQUALLY SO MOWER WILL STAY LEVEL SIDE-TOSIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- · Recheck side-to-side adjustment.

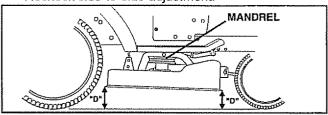
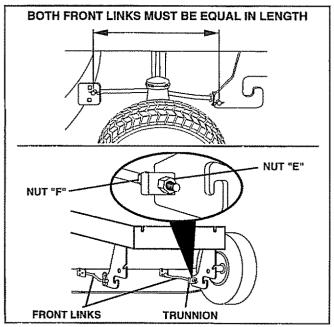


FIG. 21



# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

#### **BELT REMOVAL -**

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

#### **BELT INSTALLATION -**

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.

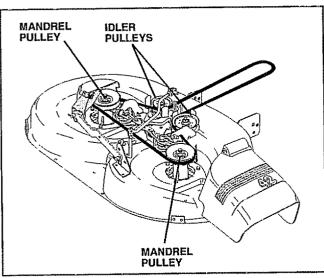


FIG. 23

#### TO ADJUST BRAKE (See Fig. 24)

Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

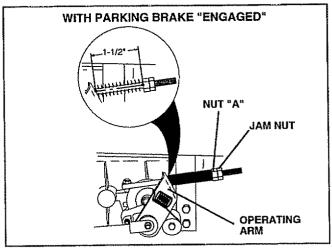


FIG. 24

# TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.

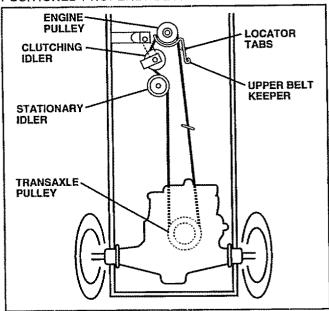


FIG. 25

20

#### TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

#### FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

# TO REMOVE WHEEL FOR REPAIRS (See Fig. 26)

- Block up axle securely
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- · Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- · Replace axle cover.

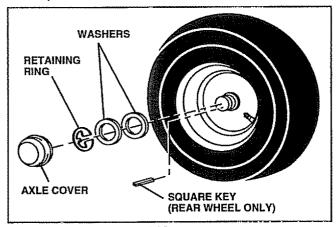


FIG. 26

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 27)



CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

#### TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGA-TIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

#### TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and then from the fully charged battery.
- · RED cable last from both batteries.

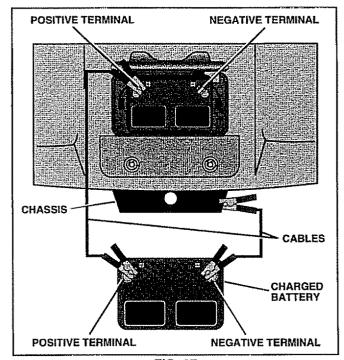


FIG. 27

#### TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- · Close hood.

#### INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

 Check wiring. See electrical wiring diagram in the Repair Parts section of this manual.

#### TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

# TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 28)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedures.

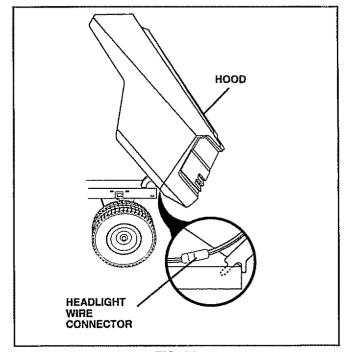


FIG. 28

#### **ENGINE**

# TO ADJUST THROTTLE CONTROL CABLE (See Fig. 29)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever from slow (♠) to choke (|६|) position. Slowly move lever from choke (|६|) to fast (♣) position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

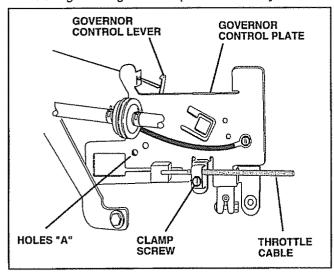


FIG. 29

#### TO ADJUST CARBURETOR (See Fig. 30)

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

#### PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).
- With engine off turn idle mixture valve in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 full turn.

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow (->) position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

#### **ACCELERATION TEST -**

Move throttle control lever from slow (
 ) to fast (
 )
 position. If engine hesitates or dies, turn idle mixture
 valve out (counterclockwise) 1/8 turn. Repeat test and
 continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust - damage may result.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

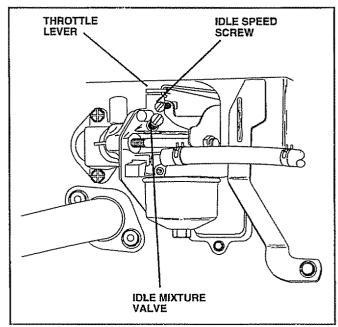


FIG. 30

### **STORAGE**

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

#### **TRACTOR**

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

#### **BATTERY**

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals
- Be sure battery drain tube is securely attached.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

#### **ENGINE**

#### **FUEL SYSTEM**

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

#### **ENGINE OIL**

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

#### **CYLINDERS**

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

#### OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

# TROUBLESHOOTING POINTS

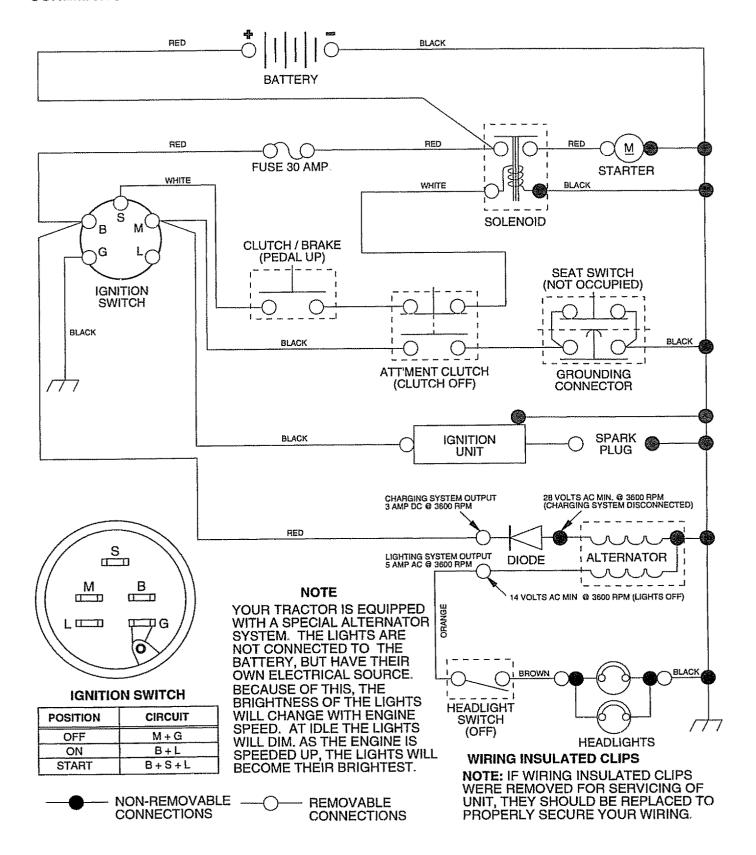
| PROBLEM                          | CAUSE  | CORRECTION  |
|----------------------------------|--|---|
| Will not start                   | 1. Out of fuel. 2 Engine not "CHOKED" properly. 3 Engine flooded. 4 Bad spark plug. 5. Dirty air filter. 6 Dirty fuel filter. 7 Water in fuel.  8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.  | <ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Check all wiring</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>   |
| Hard to start                    | <ol> <li>Dirty air filter</li> <li>Bad spark plug</li> <li>Weak or dead battery</li> <li>Dirty fuel filter</li> <li>Stale or dirty fuel</li> <li>Loose or damaged wiring</li> <li>Carburetor out of adjustment</li> <li>Engine valves out of adjustment</li> </ol>   | <ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>  |
| Engine will not turn over        | <ol> <li>Clutch/brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty Ignition switch.</li> <li>Faulty solenold or starter.</li> <li>Faulty operator presence switch(es).</li> </ol>  | <ol> <li>Depress clutch/brake pedal.</li> <li>Disengage attachment clutch.</li> <li>Recharge or replace battery.</li> <li>Replace fuse.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace ignition switch.</li> <li>Check/replace solenoid or starter.</li> <li>Contact an authorized service center/department.</li> </ol>   |
| Engine clicks but will not start | Weak or dead battery.     Corroded battery terminals.     Loose or damaged wiring.     Faulty solenoid or starter.   | <ol> <li>Recharge or replace battery.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace solenoid or starter.</li> </ol>   |
| Loss of power                    | 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel.  10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment. | <ol> <li>Set In "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean engine air screen/fins.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol> |
| Excessive vibration              | Worn, bent or loose blade.     Bent blade mandrel.     Loose/damaged part(s).  | Replace blade . Tighten blade bolt.     Replace blade mandrel.     Tighten loose part(s). Replace damaged parts.  |

# TROUBLESHOOTING POINTS

| PROBLEM   | CAUSE   | CORRECTION   |  |  |  |
|---|---|--|--|--|--|
| Engine continues to run<br>when operator leaves seat<br>with attachment clutch<br>engaged | Faulty operator-safety presence control system.   | Check wiring, switches and connections. If not corrected, contact an authorized service center/department.   |  |  |  |
| Poor cut - uneven   | <ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>   | <ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>  |  |  |  |
| Mower blades will not rotate  | Obstruction in clutch mechanism.     Worn/damaged mower drive belt.     Frozen idler pulley.     Frozen blade mandrel.  | Remove obstruction.     Replace mower drive belt.     Replace idler pulley.     Replace blade mandrel.   |  |  |  |
| Poor grass discharge  | <ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt wom.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol> | <ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol> |  |  |  |
| Headlight(s) not working<br>(if so equipped)  | 1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.   | <ol> <li>Turn switch "ON".</li> <li>Replace bulb(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>   |  |  |  |
| Battery will not charge   | Bad battery cell(s).     Poor cable connections.     Faulty regulator (if so equipped).     Faulty alternator.  | 1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.   |  |  |  |
| Engine "backfires"<br>when turning engine<br>"OFF"  | Engine throttle control not set at "SLOW"     position for 30 seconds before stopping engine.   | Move throttle control to "SLOW" position and allow<br>to idle for 30 seconds before stopping engine.   |  |  |  |
|   |   |  |  |  |  |

#### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

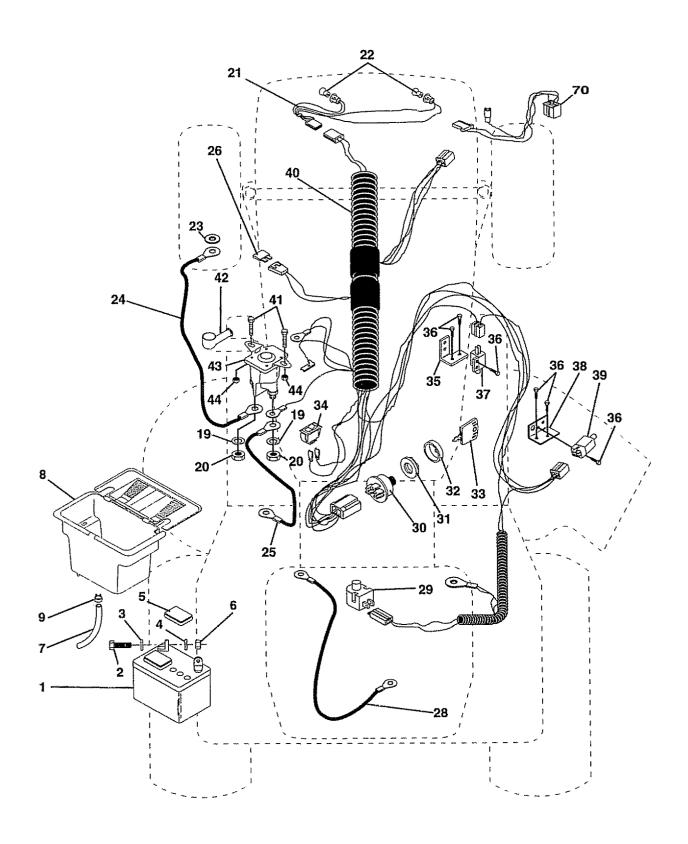
#### **SCHEMATIC**



**REPAIR PARTS** 

# 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### **ELECTRICAL**



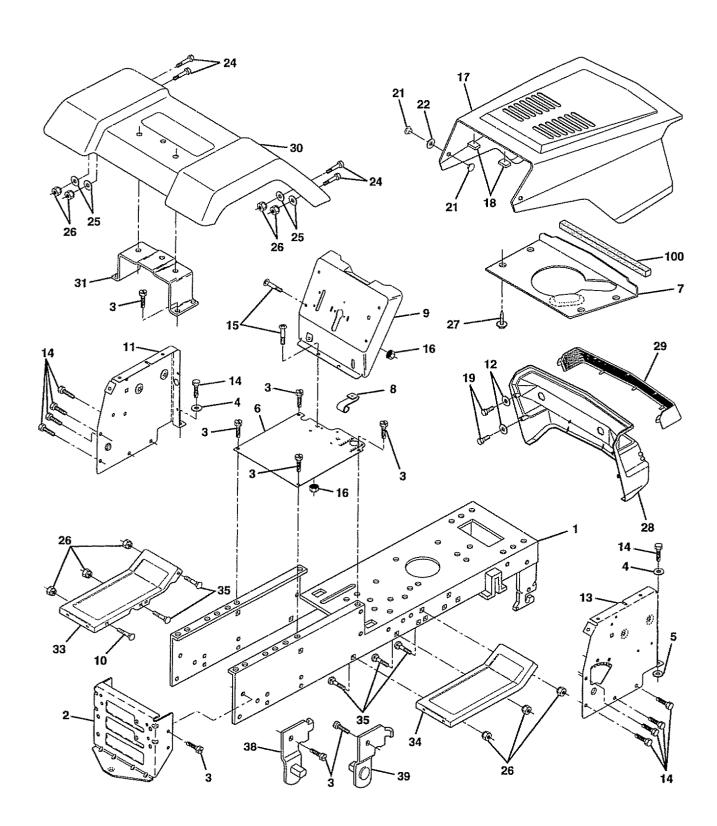
## 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### ELECTRICAL

| KEY<br>NO.                                    | PART<br>NO.  | DESCRIPTION  |
|---|--|--|
| 123456789990122224568903133345637899414244470 | 11150400<br>4799J<br>132202<br>108824X<br>4207J<br>121305X<br>144921<br>140400<br>141226<br>140403<br>110712X<br>108236X<br>17021008<br>104445X<br>140336<br>109553X<br>140414<br>71110408<br>131563<br>138406 | Battery 12 Volt 25 AMP Bolt Hex Hd 1/4-20unc X 3/4 Washer 9/32 X 5/8 X 16 Ga Washer Lock Hvy Helical 1/4 Caps Battery 20/25/30 AMP Nut Fin Hex 1/4-20 Unc Tube Plastic 12" Case Battery Hng Mech W/lid Clamp Hose Olive Washer Lock 1/4 Nut Jam Hex 1/4-20 Unc Harness Socket Light Bulb Light #1156 Washer Lock Internal Tooth 1/4 Cable Battery 6 Ga 43" red Cable Battery 6 Ga 43" red Fuse 30 AMP Auto Green Cable Ground 6ga 12" black Switch Plunger Nc Gray Switch Ign 3 pos Nut Ignition Cover Sw Ignition Key Ign Molded Craftsman, Delta Switch Light Blk Blk Red Bracket Switch Clutch Screw Tap Hex #10-24unc X 1/2 Switch Intlk Cl Grd Gry 2 Term Bracket Switch Interlock Switch Intlk Cl MWR Gry 4 Term Harness Ign LT Mech Bolt Blk Fin Hex 1/4-20 Unc Harness Engine, B&S/Tec, Dual |

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

13 HP 42" TRACTOR - - MODEL NUMBER 917.257632 CHASSIS AND ENCLOSURES



### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

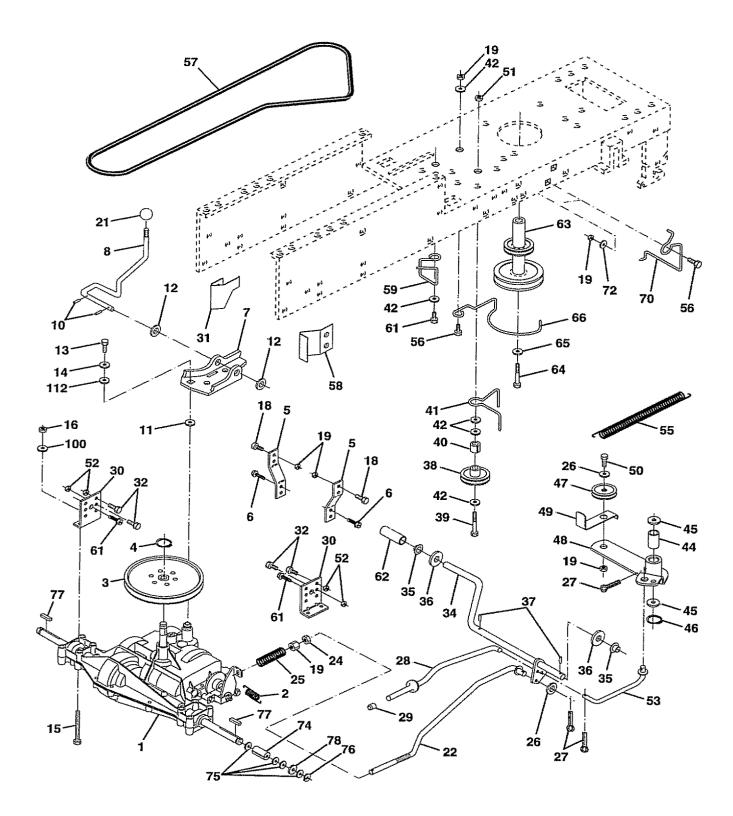
### **CHASSIS AND ENCLOSURES**

| KEY<br>NO.  | PART<br>NO.          | DESCRIPTION  |
|-------------|----------------------|--|
| 1           | 140341               | Chassis Wldmt 11ga                                 |
| 2           | 140356               | Drawbar Stretch<br>Screw Thdrol 3/8-16 x 3/4 Ty-tt |
| 3<br>4      | 17490612<br>19131216 | Washer 13/32 X 3/4 X 16 Ga                         |
| 4           | 11050600             | Washer Lock Ext Tooth 3/8                          |
| 5<br>6      | 140290X016           | Saddle Str Flat LT                                 |
| 5<br>6<br>7 | 126842X              | Shield Ht. Hood Kohl/Dia Engine                    |
| 8           | 126471X              | Clip Insulator 406 Mtg Hole                        |
| 9           | 140637X013           | Dash Siksor 1-pc M W/i N/c Eng                     |
| 10          | 72140608             | Bolt Right Sqnk 3/8-16unc X 1                      |
| 11          | 135464               | Panel Dash LH                                      |
| 12          | 11030400             | Washer Lock 1/4 Int/Ext Tooth                      |
| 13          | 124031X012           | Panel Sikscr Dash RH Wid Notch                     |
| 14          | 17490608             | Screw Thdrol 3/8-16 x 1/2 Ty-tt                    |
| 15          | 74180512             | Screw Mach TRHD 5/16-18 unc x 3/4                  |
| 16          | 73510500             | Nut Keps 5/16-18 Unc                               |
| 17          | 131445X417           | Hood Asm Pnt Slope Weld Ms-417                     |
| 18          | 126938X              | Bumper Hood<br>Screw Sitd Hex Hd W/PI Washer       |
| 19          | 17521312<br>122933X  | Rivet Ratchet Nylon                                |
| 21<br>22    | 124479X              | Washer Nylon Blk 28 x 75 x 19                      |
| 24          | 74780616             | Bolt Fin Hex 3/8-16 unc x 1 Gr. 5                  |
| 25          | 19131312             | Washer 13/32 X 13/16 x 12 Ga                       |
| 26          | 73800600             | Nut Hex Lock W/Ins. 3/8-16 Unc                     |
| 27          | 17030808             | Screw Spiderloc Hex Hd #8 x 1/2                    |
| 28          | 140135               | Grille Grev  |
| 29          | 124029X              | Lens Headlight Bar Clear                           |
| 30          | 109872X417           | Fender Pnt LT W/o Shift                            |
| 31          | 136619               | Bracket Fender Repl 109873x                        |
| 33          | 105465X417           | Footrest Pnt Lh (Silver)                           |
| 34          |                      | Footrest Pnt Rh (Silver)                           |
| 35          |                      | Bolt Right Stank 3/8-16 x 3/4                      |
| 38          |                      | Bracket Asm Pvt LH MWR Rear                        |
| 39          |                      | Bracket Asm Pvt RH MWR Rear                        |
| 100         |                      | Strip Foam 18"<br>Plug Button Blk 359 Dia Choke    |
|             | 5479J                | Filly Dullon Dik 303 Dia Onoke                     |

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### DRIVE



### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

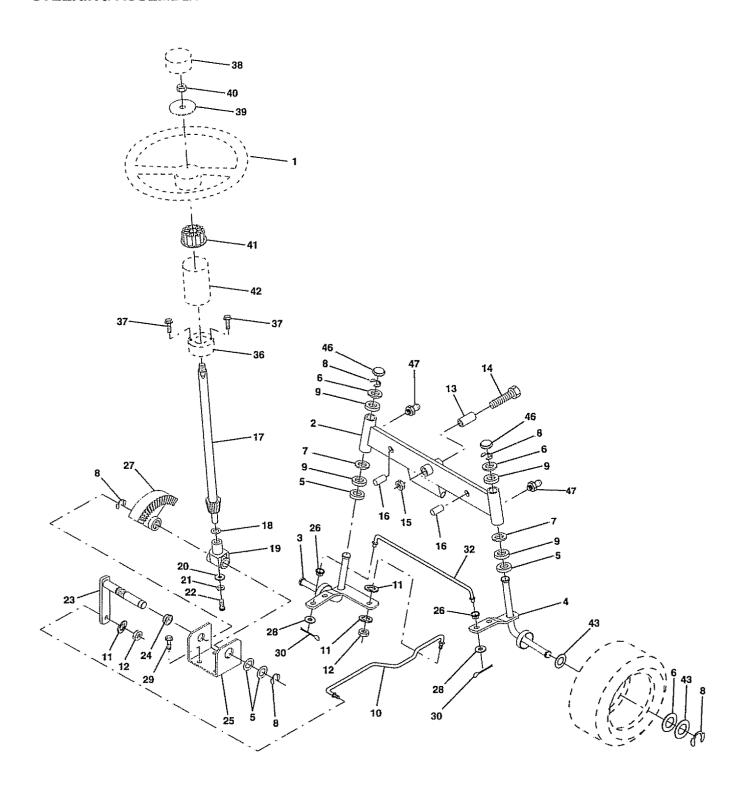
#### DRIVE

| KEY<br>NO.  | PART<br>NO.  | DESCRIPTION   | KEY<br>NO.   | PART<br>NO. | DESCRIPTION  |
|---|--|---|--|-------------|--|
| 1 2 3 4 5 6 7 8 0 1 1 2 3 4 5 6 7 8 0 1 1 2 3 4 5 6 7 8 0 1 1 2 3 4 5 6 7 8 0 1 1 2 2 2 4 5 6 7 8 0 3 6 3 7 8 0 3 6 7 8 0 1 2 2 4 5 6 7 8 0 3 6 7 8 0 1 2 2 4 5 6 7 8 0 1 2 2 | 142603<br>110422X<br>123666X<br>12000028<br>121520X<br>17490512<br>130802<br>131679<br>76020416<br>105701X<br>19151216<br>71040412<br>10040400<br>74780544<br>73680500<br>74780616<br>73800600<br>106933X<br>130804<br>73350600<br>106888X<br>19131316<br>76020412<br>140448<br>124236X<br>130807<br>127275X<br>74760512<br>122424X<br>120183X<br>19211616<br>1572H<br>123674X | Transaxle 6sp Std D4360-79 Spring Return Brake T/a Zinc Pulley Transaxle 18/20" tires Ring Retainer # 5100-62 Strap Torque 30 Degrees Screw Thdrol 5/16-18 X 3/4 TYT Bracket Saddle Shift T/a Rod Shf Sdl LY/YT Str Blk Zinc Pin Cotter 1/8 X 1 Cad Washer Plate Shf 388 Sq Hole Washer 15/32 X 3/4 X 16ga Bolt Fin Hex 1/4-28unfx3/4 Gr8 Washer Lock Hvy Helical 1/4 Bolt Fin Hex 5/16-18unc X 2 75 Nut Crown Lock 5/16-18 Bolt Fin Hex 3/8-16unc X 1 Gr. 5 Nut Lock Hex W/lns. 3/8-16 Unc Knob Rd 1/2-13 Plstc Thds Blk Rod Brake Blk Zinc 26 840 Nut Hex Jam 3/8-16 Unc Spring Rod Brake 2 00 Zinc Washer 13/32 X 13/16 X 16 Ga Pin Cotter 1/8 X 3/4 Cad Rod Brake Parking Lt Flat 94 Cap Brake Parking Red Bracket Mtg Transaxle Keeper Belt LH LT 14 Ga Bolt Hex Hd 5/16-18unc X 3/4 Shaft Asm Pedal Foot 1 930 Bearing Nylon Blk 629 Id Washer 21/32 X 1 X 16 Ga Pin Roll 3/16 X 1" Pulley Idler Flat | 41<br>42<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>53<br>55<br>55<br>57<br>58<br>59<br>61<br>62<br>66<br>66<br>70<br>77<br>77<br>78<br>100<br>112 | 19091210    | Bolt Fin Hex 3/8-16unc X 2-3/4 Spacer Split 395 X 59 Bzp Keeper Belt Retainer Washer 13/32 X 13/16 X 12 Ga Bearing Nyl 503 X 628 X 1 25 Washer Hardened Ring Klip #t5304-50 Pulley Idler V Groove Plastic Bellcrank Asm Clutch Retainer Belt Style Spring Bolt Hex Hd 3/8-16unc X 1-1/2 Link Clutch 7 66 Spring Return Clutch 6 75 Bolt Fin Hex 3/8-16 unc x 1-1/4 V-Belt Gd Drive 95 25 Keeper Belt RH LT Pnt/zinc 16g Keeper Belt Centerspan Screw Thdrol 3/8-16x3/4 Ty-tt Cover Pedal Blk Round Pulley Eng Cl Mech 38deg LT/YT Bolt Hex 7/16-20x4 Gr 5 Washer Lock Hvy Hlcl Spr 7/16 Keeper Belt Engine LH LT Guide Belt Mower Drive RH Washer 13/32 X 1-1/4 X 12 Ga Spacer Split 80x1 94 Cad/zinc Washer 25/32 X 1 1/4 X 16 Ga E-ring #5133-75 Key Square 2 0 X 1845/ 1865 Washer 11/32 X 3/4 X 16ga Washer 11/32 X 3/4 X 16ga washer 11/32 X 3/4 X 16ga |

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

**REPAIR PARTS** 

### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632 STEERING ASSEMBLY



### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

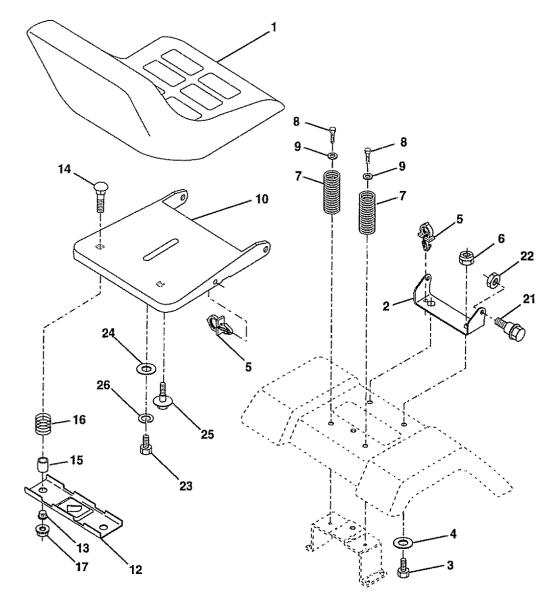
#### STEERING ASSEMBLY

| KEY<br>NO.  | PART<br>NO.  | DESCRIPTION  |
|---|--|--|
| 1234567890112345678900122222222233367890414234467 | 139768<br>142033<br>135227<br>135228<br>6266H<br>121748X<br>19272016<br>12000029<br>3366R<br>130468<br>10040600<br>73610600<br>110438X<br>74011056<br>73901000<br>132624<br>132614<br>57079<br>124035X<br>126684X<br>10040400<br>71070410<br>127501<br>109816X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>124036X<br>1240 | Wheel Steering Opp Sears Blk Axle Asm Front Lt Spindle Asm Rh Washer Thrust .75 x 1.230 Washer 25/32 x 1-5/8 x 16 Ga. Washer 27/32 x 1-1/4 x 16 Ga. RingKlip #T5304-75 Bearing Col Strg Blk Link Drag Sol Ball Jt 20.064 Washer Lock Hvy Hicl Spr 3/8 Nut Fin Hex 3/8-24 Unf Spacer Bearing Axle Front Bolt, Hex 5/8-11 UNC x 3-1/2 Locknut Flange 5/8-11 UNC Pin Axle 5/8 x 1.55/1.54 Lg Shaft Asm Strg 5/8 x 15.19 Lt Washer Thrust .515 x .750 x .033 Support Shaft Washer Shim 1/4 x 5/8 x .062 Washer Lock Hvy Helical 1/4 Screw Hex Socket 1/4-20 x 5/8 Shaft Asm Pitman Nyliner Snap In Bracket Steering Bushing LInk Drag Blk LR Gear Sector 22 Teeth Washer 13/32 x 7/8 x 16 Ga. Screw Thdrol 3/8-16 x 3/4 TY-TT Pin Cotter 1/8 x 3/4 Cad Rod Tie Wire Form 19.75 Mech Bushing Strg. 5/8 ID Dash Screw Slftp #10-16 x 1/2 Ty-B Cap Wheel Steer Opp Sears Blk Washer 13/32 x 2-3/8 x 8 Ga. Locknut Center 3/8-24 Unf Adaptor Wheel Strg640/.635 Id Boot Shaft Steering Craftsman Washer 25/32 x 1-1/4 x 16 Ga. Cap Spindle Fr Top Blk Fitting Grease |

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

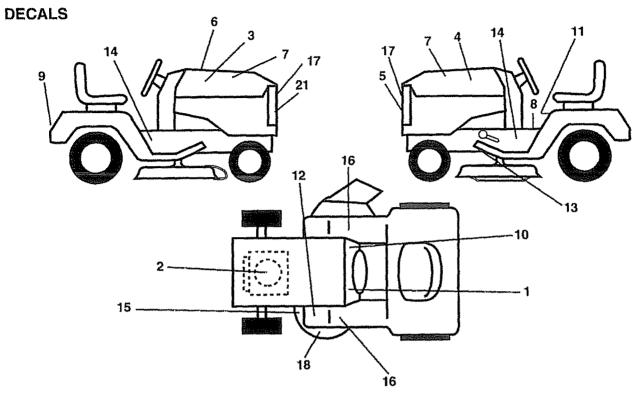
### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### **SEAT ASSEMBLY**



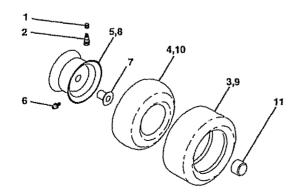
| KEY<br>NO.                                      | PART<br>NO.   | DESCRIPTION  | KEY<br>NO.   | PART<br>NO.   | DESCRIPTION   |
|---|---|--|--|---|---|
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | 127437<br>140551<br>74760616<br>19131610<br>145006<br>73800600<br>124181X<br>17490616<br>19131614<br>140552 | Seat Bracket Pvt St Bolt Fin Hex 3/8-16unc X 1 Washer Flat 13/32 X 1 X 10 Ga Clip Push-In Hinged Locknut Hex W/Wsh 3/8-16 Spring Seat Cprsn 2 250 Blk Zi Screw Thdrol 3/8-16 X 1 Ty-tt Washer 13/32 X 1 X 14 Ga Pan Seat | 14<br>15<br>16<br>17<br>21<br>22<br>23<br>24<br>25<br>26 | 72050411<br>134300<br>121250X<br>123976X<br>139888<br>73800500<br>74780814<br>19171912<br>127018X<br>10040800 | Bolt Rdhd Sht Nk 1/4-20x1-3/8<br>Spacer Split 28x 96 Yel Zinc<br>Spring Cprsn 1 27 Blk Pnt<br>Nut Lock 1/4 Lge Flg Gr 5 Zinc<br>Bolt Shld 5/16-18 Type Tt T R<br>Nut Lock Hex "W/Ins 5/16-18<br>Bolt Fin Hex 1/2-13 X 7/8 Gr 5<br>Washer 17/32 X 1-3/16 X 12 Ga<br>Bolt Shoulder 5/16-18 X 62<br>Washer Lock Hvy Hicl Spr 1/2 |
| 12<br>13  | 121246X<br>121248X  | Bracket Mounting Switch<br>Bushing Snap Blk Nyl 50 ld  | NOT  | E: All compor<br>1 inch = 25  | nent dimensions given in U.S. inches.   |

#### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632



| KEY | PART    |                                 | KEY   | PART    |                                |
|-----|---------|---------------------------------|-------|---------|--------------------------------|
| NO. | NO.     | DESCRIPTION                     | NO.   | NO.     | DESCRIPTION                    |
| 1   | 138955  | Decal Dash Inst Oper English    | 12    | 4900J   | Decat Clutch/brake English     |
| 2   | 141063  | Decal B&s Diamond 13HP lcgold   | 13    | 109199X | Decal V-Belt Dr Sch Tractor E  |
| 3   | 140560  | Decal Hood RH Crafts Ii Slp LT  | 14    | 131473  | Decal Chassis 6sp 42"          |
| 4   | 140561  | Decal Hood LH Crafts Ii Slp LT  | 15    | 136832  | Decal V-Belt Sch               |
| 5   | 132674  | Decal Grille LT4000 Craft USA   | 16    | 105466X | Pad Footrest Rbr Sq Craftsman  |
| 6   | 133644  | Decal Maint Cust Sears Domesti  | 17    | 142251  | Decal Ins Hood HP Black        |
| 7   | 142248  | Decal Side Pnl logold Blk B & S | 18    | 133179  | Decal Mower Qc System          |
| 8   | 140837  | Decal Brake Parking Saddle      | 21    | 131265  | Decal Lightbox                 |
| 9   | 125880X | Decal Fender Craftsman Red      |       | 138311  | Decal Handle Lft Height Adjust |
| 10  | 138836  | Decal Dash Lawn Tractor SLT     | ***** | 145416  | Manual Owners 257632 English   |
| 11  | 137537  | Decal Caution Fender Eng/span   |       | 145417  | Manual Owners 257632 Spanish   |

#### **WHEELS & TIRES**

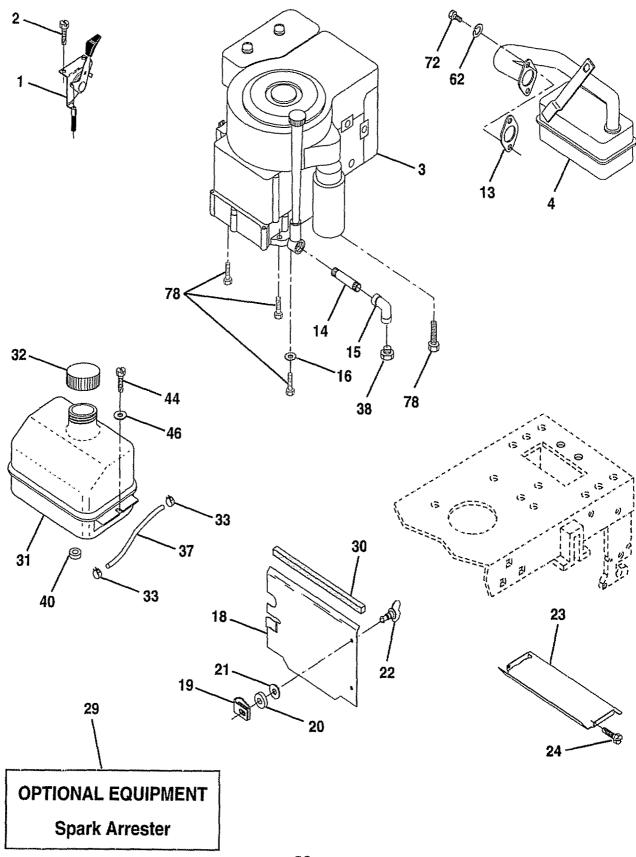


| PART<br>NO. | DESCRIPTION  |
|-------------|--|
| 59192       | Cap Valve Tire   |
| 65139       | Stem Valve   |
| 106222X     | Tire F Ts 15 X 6 0 - 6 Service   |
| 59904       | Tube Front (Service Item Only)   |
| 106732X417  | Rim Asm 6" f ront Silver Service   |
| 278H        | Fitting Grease (Front Wheel Only)  |
| 9040H       | Bearing Flange (Front Wheel Only)  |
| 106108X417  | Rim Asm 8" rear Silver Service   |
| 124635X     | Tire R Ts 18x8 5-8 C Service   |
| 7152J       | Tube Rear (Service Item Only)  |
| 104757X     | Cap Hub Axle Blk 1 50 X 1 00   |
|             | NO. 59192 65139 106222X 59904 106732X417 278H 9040H 106108X417 124635X 7152J |

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

#### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### **ENGINE**



# 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

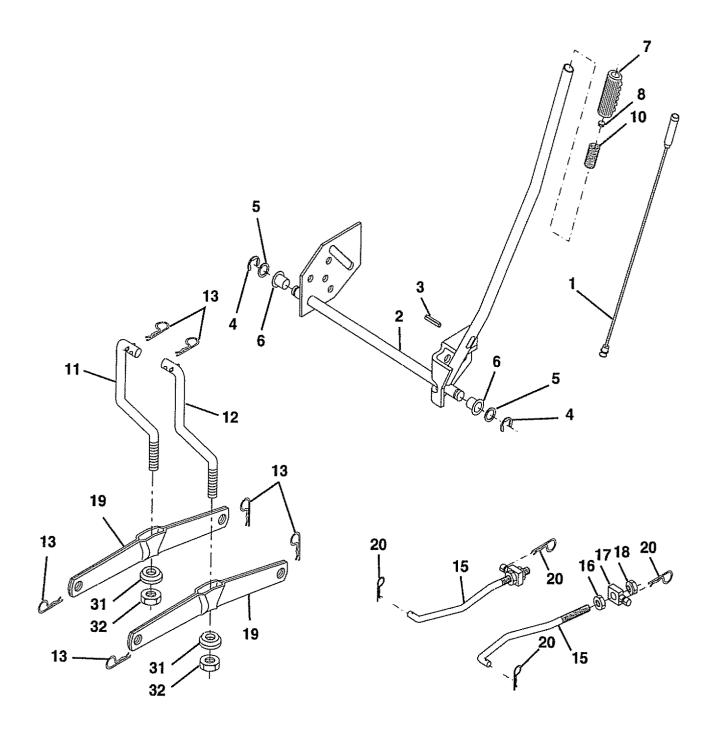
#### **ENGINE**

| KEY<br>NO.                       | PART<br>NO.                               | DESCRIPTION  |
|----------------------------------|---|--|
| 1<br>2<br>3                      | 132759<br>17720410<br>140591              | Control Th/ch RH Blk Pdi 15 10<br>Screw Hex Thd Cut 1/4-20x5/8 T<br>Engine Asm B&s Dmd 13Eec lcgld<br>Model No. 28M707, Type No. 0137-01   |
| 4<br>13<br>14<br>15              | 137348<br>125593X<br>13280324<br>13200300 | Muffler LT B&S 12/12 5/13 HP Gasket Eng 1 313 Id Tin Plated Nipple Pipe 3/8 Npt x 3" Filhow Std 90 Degree 3/8-18 Npt   |
| 16<br>18<br>19<br>20             | 11050600<br>136718<br>105839X<br>105838X  | Washer Lock Ext Tooth 3/8 Shield Heat LT Receptacle 1/4 Turn Dacrotized Retainer 1/4 Turn 365 od x 222id   |
| 22<br>23<br>24                   | 17021008                                  | Washer 9/32 x 5/8 x 16 Ga Stud 1/4 Turn (Replaces 105751) Shield Heat Browning LT/YT Screw Tap Hex #10-24 unc X 1/2  |
| 29<br>30<br>31<br>32             | 127057X<br>109202X                        | Kit Spark Arrestor (Flat Scrn) Pinch Weld Hood Black 2 00 Tank Fuel Front 1 25 Cap Asm Fuel W/sym Vented Clamp Hose Blk  |
| 33<br>37<br>38                   | 137040                                    | Line Fuel 20" Plug Oil Drain (Order From Engine Manufacturer)  |
| 40<br>44<br>46<br>62<br>72<br>78 | 71070512                                  | Bushing Snap Nyl Blk Fuel Line<br>Screw Hexwsh Thdrol 1/4-20 x 3/4<br>Washer 9/32 x 7/8 x 16 ga<br>Washer Lock Hvy Hlcl Spr 5/16<br>Screw Hex Hd Cap 5/16-18 X 3/4<br>Screw Thdrol 3/8-16x1-1/4 TYTT |

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

# 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

LIFT



## 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

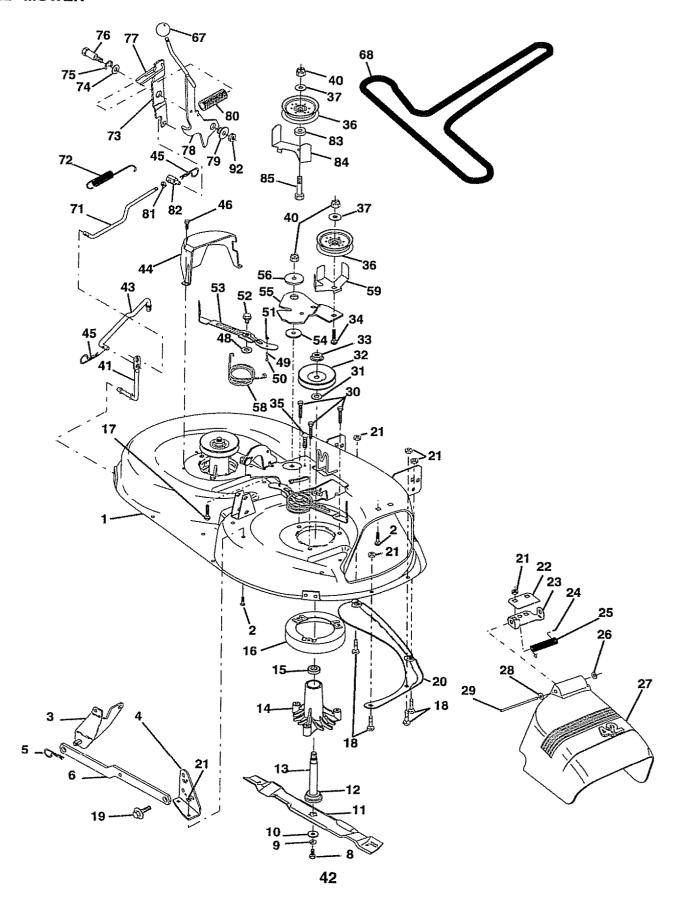
LIFT

| 1 136973 Wire Asm Inner W/plunger 1 2 122507X Shaft Asm Lift 9 680 3 105767X Pin Groove 1 500 Zinc 4 12000002 E Ring #5133-62 5 19211621 Washer Pltd 21/32 X 1 X 21 6 120183X Bearing Nylon Blk 629 Id 7 125631X Grip Handle Fluted Blk 8 122365X Button Plunger Red 10 122512X Spring Cprsn 3 750 Oiled 11 139865 Link Lift LH 12 139866 Link Lift RH 13 4939M Retainer Spring 15 127218 Link Front 16 73350800 Nut Jam Hex 1/2-13 Unc 17 130171 Trunnion Blk Zinc Nut Jam Hex 1/2-13 Unc 17 130171 Trunnion Blk Zinc Nut Lock W/wsh 1/2-13unc 19 139868 Arm Suspension Rear 20 3146R Retainer Spring Zinc 31 140302 Bearing Pvt Lift Spherical Nut Lock 3/8-24 W/Nylon In | ga |
|---|----|

NOTE: All component dimensions given in U  $_{\circ}$ S. inches  $_{\circ}$  1 inch = 25.4 mm

# 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### 42" MOWER



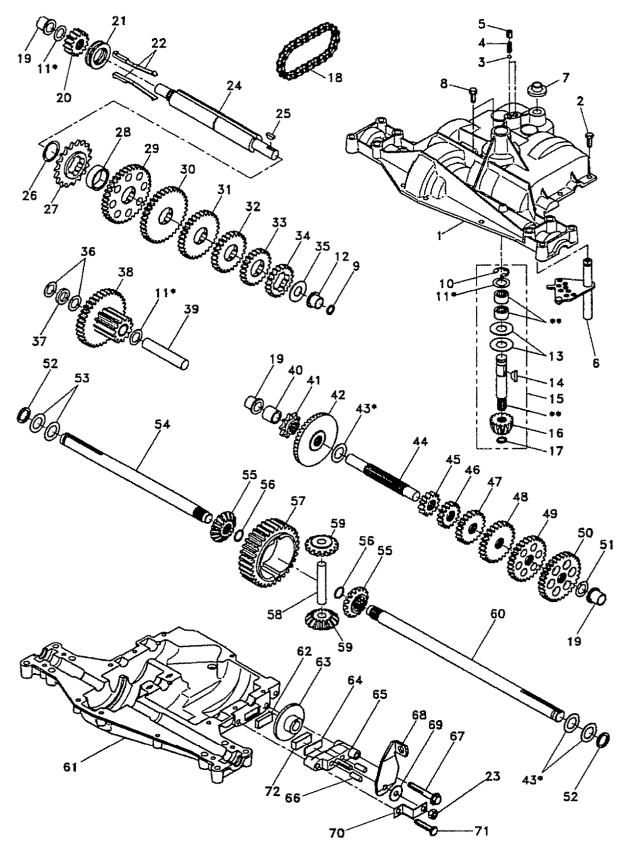
#### 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

#### 42" MOWER

| 1         144393         Mower Housing         41         133551         Rod, Pivot, with Nibs           2         STD533107         Bracket Assembly, Sway Bar         43         140088         Guard, Mandrel, L.H.           4         138440         Bracket Assembly, Sway Bar         45         STD624003         Guard, Mandrel, L.H.           5         STD624008         Hetainer Spring         46         137729         Screw, Thd. Roll 1/4-20 x 5/8           8         850857         Bolt, Hex 3/8-24 x 1.25 Grade 8         49         133940         Holler Assembly, Cam Follower           10         140296         Washer, Lock         50         131340         Bolt, Shoulder #10-24 Grade 5           11         134149         Blade, Mulching         52         139888         Bolt, Shoulder #10-24 Grade 5           12         129895         Bearing, Ball         53         131845         Arm Assembly, Pad, Brake           14         128774         Housing, Mandrel, Vented         56         122052X         Spacer, Retainer           15         110485X         Bearing, Ball, Mandrel         58         140086         Spring, Torsion Brakes 42"           16         140329         Stripper, Vented Mower Deck         59         141043         Guard, Truv Id   | KEY<br>NO. | PART<br>NO. | DESCRIPTION                     | KEY<br>NO. | PART<br>NO. | DESCRIPTION                      |
|--|------------|-------------|---------------------------------|------------|-------------|----------------------------------|
| 138477   |            | 144393      |                                 |            |             |                                  |
| 138440   Bracket Assembly, Sway Bar   45 STD624003   Stripper    | 2          |             |                                 |            |             |                                  |
| STD624008  |            |             |                                 |            |             |                                  |
| 6         130832         Arm, Suspension, Rear         48         133944         Washer, Hardened           8         850857         Bolt, Hex 3/8-24 x 1.25 Grade 8         49         133940         Roller Assembly, Cam Follower           9         STD551137         Washer, Lock         50         1313440         Bolt, Shoulder #10-24 Grade 5           11         140296         Washer, Hardened         51         STD541410         Locknut           11         134149         Blade, Mulching         52         139888         Bolt, Shoulder #10-24 Grade 5           129895         Bearing, Ball         53         131845         Arm Assembly, Pad, Brake           13         137645         Shaft Assembly, Mandrel, Vented         54         133943         Washer, Hardened           14         128774         Housing, Mandrel, Vented         56         122052X         Spacer, Retainer           15         110485X         Bearing, Ball, Mandrel         58         140086         Spring, Torsion Brakes 42"           16         140829         Stripper, Vented Mower Deck         59         141043         Guard, Tuv Idler (94)           17         7210610         Bolt, Carriage 5/16-18 x 5/8         68         144200         V-Beit           19 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |            |             |                                 |            |             |                                  |
| 8 850857         Bolt, Hex 3/8-24 x 1.25 Grade 8         49 133940         Roller Assembly, Cam Follower 9 131340           9 STD551137         Washer, Lock         50 131340         Bolt, Shoulder #10-24 Grade 5           10 140296         Washer, Hardened         51 STD541410         Locknut           11 134149         Blade, Mulching         52 139888         Bolt, Shoulder \$/16-18 UNC           12 129895         Bearing, Ball         53 131845         Arm Assembly, Pad, Brake           13 137645         Shaff Assembly, Mandrel, Vented (Includes Key Number 6)         55 140084         Arm, Idler           14 128774         Housing, Mandrel, Vented         56 122052X         Spacer, Retainer           15 110485X         Bearing, Ball, Mandrel         58 140086         Spring, Torsion Brakes 42"           16 140329         Stripper, Vented Mower Deck         59 141043         Guard, Tuv Idler (94)           17 72110610         Bolt, Carriage 3/8-16 x 2-1/4         67 106932X         Knob, Round 3/8-16 UNC           18 72140505         Bolt, Shoulder         71 142427         Rod, Clutch, Primary, with Nibs           19 132827         Bolt, Shoulder         71 142427         Rod, Clutch, Primary, with Nibs           21 73680500         Nut, Crownlock 5/16-18 UNC         73 127847         Arm, Clutch, Secondary   | 6          |             |                                 | 48         | 133944      | Washer, Hardened                 |
| 9 STD551137 Washer, Lock 10 140296 Washer, Hardened 11 134149 Blade, Mulching 12 129895 Bearing, Ball 13 137645 Shaft Assembly, Mandrel, Vented (Includes Key Number 6) 14 128774 Housing, Mandrel, Vented (Includes Key Number 6) 15 110485X Bearing, Ball, Mandrel 16 140329 Stripper, Vented Mower Deck 17 72110610 Bolt, Carriage 3/8-16 x 2-1/4 18 72140505 Bolt, Carriage 5/16-18 x 5/8 19 132827 Bolt, Shoulder 19 132827 Bolt, Shoulder 10 136888 Baffle, Vortex 11 31267 Bracket 11 10452X Spring, Torsion, Deflector 12 131870 Spring, Return 13 131267 Bracket, Deflector 14 105304X Cap, Sleeve 15 10452X Spring, Torsion, Deflector 16 110452X Spring, Torsion, Deflector 17 127845 Keeper, Spring 130968 Shield, Deflector 13 131266 Sure Through Mandrel 14 12867 Stripper, Vented Mower Deck 15 140084 Arm, Idler 15 140084 Arm, Idler 16 122052X Spacer, Retainer 17 14094 Spring, Torsion Brakes 42" 18 140086 Spring, Torsion Brakes 42" 18 140086 Spring, Torsion Brakes 42" 19 132827 Bolt, Shoulder 19 132827 Bolt, Shoulder 10 142427 Rod, Clutch, Primary, with Nibs 10 136888 Baffle, Vortex 11 13870 Spring, Return 17 12784X Washer 25/32 x 1-5/8 x 16 Gauge 18 110452X Spring, Torsion, Deflector 19 13491 Bolt, Shoulder 10 127498 Bushing, Large, Brass 19 111016 Washer 11/32 x 5/8 x 16 Gauge 19 131491 Bod, Hinge 10 12863 Washer, Spacer 10 130968 Shield, Deflector 10 138776 Screw Thdrol Hex Head Zinc Mwr 11 129863 Washer, Spacer 18 129861 Pulley, Mandrel 18 133943 Washer, Spacer 18 140086 Spring, Mower Clutch 19 13494 Pulley, Idler, Flat 19 130968 Sit Stripper, Vented Mower Deck 19 131494 Pulley, Idler, Flat 10 10 15 Stripper, Vented Mower Deck 19 131494 Pulley, Idler, Flat 10 10 12 15, 31 and 32)   |            |             | Bolt, Hex 3/8-24 x 1.25 Grade 8 | 49         | 133940      | Roller Assembly, Cam Follower    |
| 134149   Blade, Mulching   52   139888   Bolt, Shoulder 5/16-18 UNC     129895   Bearing, Ball   53   131645   Arm Assembly, Pad, Brake     137645   Shaff Assembly, Mandrel, Vented   54   133943   Washer, Hardened     14   128774   Housing, Mandrel, Vented   56   122052X   Spacer, Refainer     15   110485X   Bearing, Ball, Mandrel   58   140086   Spring, Torsion Brakes 42"     16   140329   Stripper, Vented Mower Deck   59   141043   Guard, Tuv Idler (94)     17   72110610   Bolt, Carriage 3/8-16 x 2-1/4   67   106932X   Knob, Round 3/8-16 UNC     18   72140505   Bolt, Carriage 5/16-18 x 5/8   68   144200   V-Belt     19   132827   Bolt, Shoulder   71   142427   Rod, Clutch, Primary, with Nibs     136888   Baffle, Vortex   72   131870   Spring, Return     17   73680500   Nut, Crownlock 5/16-18 UNC   73   127847   Arm, Clutch, Secondary     21   134753   Stifferer Bracket   74   121748X   Washer 25/32 x 1-5/8 x 16 Gauge     13   1267   Bracket, Deflector   75   12000029   Ring, Klip     24   105304X   Cap, Sleeve   76   128903   Bolt, Shoulder 3/8-16 UNC x 1.44     25   123713X   Spring, Torsion, Deflector   77   127845   Keeper, Spring     26   110452X   Nut, Push   78   140334   Arm, Clutch, Primary     27   130968   Shield, Deflector   79   127498   Bushing, Large, Brass     19111016   Washer 11/32 x 5/8 x 16 Gauge   80   128759   Spring, Mower Clutch     20   138776   Screw Thdrol Hex Head Zinc Mwr   82   142028   Trunnion Adj. 94     31   129963   Washer, Spacer   83   120958X   Washer Sintered     32   129861   Nut, Toplock, Flanged   85   STD533720   Bolt Carriage 3/8-16 x 2-1/2 G5     34   STD533717   Bolt   State, Christmas Tree   130794   Numbers 8-10, 12-15, 31 and 32   |            |             | Washer, Lock                    |            |             |                                  |
| 12   129895   Bearing, Ball   S3   131845   Arm Assembly, Pad, Brake   13   137645   Shaff Assembly, Mandrel, Vented   S4   133943   Washer, Hardened   Washer, Hardened   Uncludes Key Number 6)   S5   140084   Arm, Idler   Masher, Hardened   Arm, Idler   Masher, Hardened   Mas | 10         | 140296      |                                 |            |             |                                  |
| 137645   Shaft Assembly, Mandrel, Vented (Includes Key Number 6)   54   133943   Washer, Hardened (Includes Key Number 6)   55   140084   Arm, Idler   |            |             |                                 |            |             |                                  |
| (Includes Key Number 6)  14 128774 Housing, Mandrel, Vented 56 122052X Spacer, Retainer 15 110485X Bearing, Ball, Mandrel 58 140086 Spring, Torsion Brakes 42"  16 140329 Stripper, Vented Mower Deck 59 141043 Guard, Tuv Idler (94)  17 72110610 Bolt, Carriage 3/8-16 x 2-1/4 67 106932X Knob, Round 3/8-16 UNC  18 72140505 Bolt, Carriage 5/16-18 x 5/8 68 144200 V-Belt  19 132827 Bolt, Shoulder 71 142427 Rod, Clutch, Primary, with Nibs  20 136888 Baffle, Vortex 72 131870 Spring, Return  21 73680500 Nut, Crownlock 5/16-18 UNC 73 127847 Arm, Clutch, Secondary  22 134753 Stiffener Bracket 74 121748X Washer 25/32 x 1-5/8 x 16 Gauge  23 131267 Bracket, Deflector 75 12000029 Ring, Klip  24 105304X Cap, Sleeve 76 128903 Bolt, Shoulder 3/8-16 UNC x 1.44  25 123713X Spring, Torsion, Deflector 77 127845 Keeper, Spring  26 110452X Nut, Push 78 140334 Arm, Clutch, Primary  27 130968 Shield, Deflector 79 127498 Bushing, Large, Brass  28 19111016 Washer 11/32 x 5/8 x 16 Gauge  29 131491 Rod, Hinge 81 73350600 Nut, Hex Jeacer 83 120958X Washer Sintered  30 138776 Screw Thdrol Hex Head Zinc Mwr 31 129963 Washer, Spacer 83 120958X Washer Sintered  31 129861 Pulley, Mandrel 84 144394 Keeper Belt Idler Fixed  32 129861 Pulley, Mandrel 84 144394 Keeper Belt Idler Fixed  33 137266 Nut, Toplock, Flanged 85 STD533720 Bolt Carriage 3/8-16 x 2-1/2 G5  34 STD533717 Bolt   |            |             | Bearing, Ball                   |            |             |                                  |
| 14         128774         Housing, Mandrel, Ventéd         56         122052X         Spacer, Retainer           15         110485X         Bearing, Ball, Mandrel         58         140086         Spring, Torsion Brakes 42"           16         140329         Stripper, Vented Mower Deck         59         141043         Guard, Tuv Idler (94)           17         72110610         Bolt, Carriage 3/8-16 x 2-1/4         67         106932X         Knob, Round 3/8-16 UNC           18         72140505         Bolt, Carriage 5/16-18 x 5/8         68         144200         V-Belt           19         132827         Bolt, Shoulder         71         142427         Rod, Clutch, Primary, with Nibs           20         13688         Baffle, Vortex         72         131870         Spring, Return           21         73680500         Nut, Crownlock 5/16-18 UNC         73         127847         Arm, Clutch, Secondary           22         134753         Stiffener Bracket         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           23         131267         Bracket, Deflector         75         12000029         Ring, Klip           24         105304X         Cap, Sleeve         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44 <td>13</td> <td>137645</td> <td></td> <td></td> <td></td> <td></td>   | 13         | 137645      |                                 |            |             |                                  |
| 15   |            |             |                                 |            |             |                                  |
| 16         140329         Stripper, Vented Mower Deck         59         141043         Guard, Tuv Idler (94)           17         72110610         Bolt, Carriage 3/8-16 x 2-1/4         67         106932X         Knob, Round 3/8-16 UNC           18         72140505         Bolt, Carriage 5/16-18 x 5/8         68         144200         V-Belt           19         132827         Bolt, Shoulder         71         142427         Rod, Clutch, Primary, with Nibs           20         136888         Baffle, Vortex         72         131870         Spring, Return           21         73680500         Nut, Crownlock 5/16-18 UNC         73         127847         Arm, Clutch, Secondary           22         134753         Stiffener Bracket         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           23         131267         Bracket, Deflector         75         12000029         Ring, Klip           24         105304X         Cap, Sleeve         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           25         123713X         Spring, Torsion, Deflector         77         127845         Keeper, Spring           26         110452X         Nut, Push         78         140334         Arm, Clutch, Primary   |            |             | Housing, Mandrel, Vented        |            |             | Spring Torsion Brakes 42"        |
| 17         72110610         Bolt, Carriage 3/8-16 x 2-1/4         67         106932X         Knob, Round 3/8-16 UNC           18         72140505         Bolt, Carriage 5/16-18 x 5/8         68         144200         V-Belt           19         132827         Bolt, Shoulder         71         142427         Rod, Clutch, Primary, with Nibs           20         13688         Baffle, Vortex         72         131870         Spring, Return           21         73680500         Nut, Crownlock 5/16-18 UNC         73         127847         Arm, Clutch, Secondary           22         134753         Stiffener Bracket         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           23         131267         Bracket, Deflector         75         12000029         Ring, Klip           24         105304X         Cap, Sleeve         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           25         123713X         Spring, Torsion, Deflector         77         127845         Keeper, Spring           26         110452X         Nut, Push         78         140334         Arm, Clutch, Primary           27         130968         Shield, Deflector         79         127498         Bushing, Large, Brass           28 <td></td> <td></td> <td>Stripper Vented Mower Deck</td> <td></td> <td></td> <td>Guard Tuy Idlar (94)</td>   |            |             | Stripper Vented Mower Deck      |            |             | Guard Tuy Idlar (94)             |
| 18         72140505         Bolt, Carriage 5/16-18 x 5/8         68         144200         V-Belt           19         132827         Bolt, Shoulder         71         142427         Rod, Clutch, Primary, with Nibs           20         136888         Baffle, Vortex         72         131870         Spring, Return           21         73680500         Nut, Crownlock 5/16-18 UNC         73         127847         Arm, Clutch, Secondary           22         134753         Stiffener Bracket         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           23         131267         Bracket, Deflector         75         12000029         Ring, Klip           24         105304X         Cap, Sleeve         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           25         123713X         Spring, Torsion, Deflector         77         127845         Keeper, Spring           26         110452X         Nut, Push         78         140334         Arm, Clutch, Primary           27         130968         Shield, Deflector         79         127498         Bushing, Large, Brass           28         19111016         Washer 11/32 x 5/8 x 16 Gauge         80         128759         Spring, Mower Clutch           30   |            |             | Bolt Carriage 3/8-16 x 2-1//    |            |             |                                  |
| 19 132827 Bolt, Shoulder 20 136888 Baffle, Vortex 21 73680500 Nut, Crownlock 5/16-18 UNC 22 134753 Stiffener Bracket 23 131267 Bracket, Deflector 24 105304X Cap, Sleeve 25 123713X Spring, Torsion, Deflector 26 110452X Nut, Push 27 130968 Shield, Deflector 28 19111016 Washer 11/32 x 5/8 x 16 Gauge 29 131491 Rod, Hinge 30 138776 Screw Thdrol Hex Head Zinc Mwr 31 129963 Washer, Spacer 32 129861 Pulley, Mandrel 33 137266 Nut, Toplock, Flanged 35 133835 Fastner, Christmas Tree 36 131494 Pulley, Idler, Flat  P1 142427 Rod, Clutch, Primary, with Nibs Spring, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Fing, Klip Spring, Klip Spring, Heturn Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Fing, Klip Spring, Klip Rod, Clutch, Primary, with Nibs Spring, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Fing, Klip Spring, Klip Rod, Clutch, Primary, with Nibs Spring, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Fing, Klip Bolt, Shoulder 3/8-16 UNC x 1.44 Keeper, Spring Washer Sintered Washer Sintered Washer Sintered Spring, Mower Clutch Nut, Hex Jam 3/8-16 UNC Trunnion Adj. 94 Washer Sintered Washer Sintered Washer Sintered Spring, Mower Clutch Nut, Hex Jam 3/8-16 UNC Trunnion Adj. 94 Washer Sintered Washer Sintered Washer Sintered Locknut, Hex WWsh 3/8-16 UNC Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)   |            |             | Bolt Carriage 5/16-18 v 5/8     |            |             |                                  |
| 20       136888       Baffle, Vortex       72       131870       Spring, Return         21       73680500       Nut, Crownlock 5/16-18 UNC       73       127847       Arm, Clutch, Secondary         22       134753       Stiffener Bracket       74       121748X       Washer 25/32 x 1-5/8 x 16 Gauge         23       131267       Bracket, Deflector       75       12000029       Ring, Klip         24       105304X       Cap, Sleeve       76       128903       Bolt, Shoulder 3/8-16 UNC x 1.44         25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129861       Pulley, Mandrel       84       144394       Weeper Belt Idler Fix  |            |             |                                 |            |             |                                  |
| 21       73680500       Nut, Crownlock 5/16-18 UNC       73       127847       Arm, Clutch, Secondary         22       134753       Stiffener Bracket       74       121748X       Washer 25/32 x 1-5/8 x 16 Gauge         23       131267       Bracket, Deflector       75       12000029       Ring, Klip         24       105304X       Cap, Sleeve       76       128903       Bolt, Shoulder 3/8-16 UNC x 1.44         25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       1911016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Heper Belt Idler Fix  |            |             | Baffle Vortex                   |            |             |                                  |
| 22       134753       Stiffener Bracket       74       121748X       Washer 25/32 x 1-5/8 x 16 Gauge         23       131267       Bracket, Deflector       75       12000029       Ring, Klip         24       105304X       Cap, Sleeve       76       128903       Bolt, Shoulder 3/8-16 UNC x 1.44         25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x  | 21         |             | Nut. Crownlock 5/16-18 UNC      |            |             |                                  |
| 23       131267       Bracket, Deflector       75       12000029       Ring, Klip         24       105304X       Cap, Sleeve       76       128903       Bolt, Shoulder 3/8-16 UNC x 1.44         25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC </td <td>22</td> <td></td> <td>Stiffener Bracket</td> <td></td> <td></td> <td></td>  | 22         |             | Stiffener Bracket               |            |             |                                  |
| 24       105304X       Cap, Sleeve       76       128903       Bolt, Shoulder 3/8-16 UNC x 1.44         25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel A  |            |             |                                 |            | 12000029    |                                  |
| 25       123713X       Spring, Torsion, Deflector       77       127845       Keeper, Spring         26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key         36       131494       Pulley, Idler, Flat       Nut, Toplock, Flanged   | 24         |             | Cap, Sleeve                     |            | 128903      | Bolt, Shoulder 3/8-16 UNC x 1.44 |
| 26       110452X       Nut, Push       78       140334       Arm, Clutch, Primary         27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key         36       131494       Pulley, Idler, Flat       Numbers 8-10, 12-15, 31 and 32)  | 25         |             | Spring, Torsion, Deflector      |            |             |                                  |
| 27       130968       Shield, Deflector       79       127498       Bushing, Large, Brass         28       19111016       Washer 11/32 x 5/8 x 16 Gauge       80       128759       Spring, Mower Clutch         29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)  |            |             | Nut, Push                       |            |             |                                  |
| 29       131491       Rod, Hinge       81       73350600       Nut, Hex Jam 3/8-16 UNC         30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)   | 27         | 130968      |                                 |            |             |                                  |
| 30       138776       Screw Thdrol Hex Head Zinc Mwr       82       142028       Trunnion Adj. 94         31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key         36       131494       Pulley, Idler, Flat       Numbers 8-10, 12-15, 31 and 32)  | 28         |             |                                 |            |             |                                  |
| 31       129963       Washer, Spacer       83       120958X       Washer Sintered         32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key         36       131494       Pulley, Idler, Flat       Numbers 8-10, 12-15, 31 and 32)  |            |             | Rod, Hinge                      |            |             |                                  |
| 32       129861       Pulley, Mandrel       84       144394       Keeper Belt Idler Fixed         33       137266       Nut, Toplock, Flanged       85       STD533720       Bolt Carriage 3/8-16 x 2-1/2 G5         34       STD533717       Bolt       92       73800600       Locknut, Hex W/Wsh 3/8-16 UNC         35       133835       Fastner, Christmas Tree        130794       Mandrel Assembly (Includes Key         36       131494       Pulley, Idler, Flat       Numbers 8-10, 12-15, 31 and 32)  |            |             |                                 |            |             |                                  |
| 33 137266 Nut, Toplock, Flanged 85 STD533720 Bolt Carriage 3/8-16 x 2-1/2 G5 34 STD533717 Bolt 92 73800600 Locknut, Hex W/Wsh 3/8-16 UNC 35 133835 Fastner, Christmas Tree 130794 Mandrel Assembly (Includes Key 36 131494 Pulley, Idler, Flat Numbers 8-10, 12-15, 31 and 32)   | 31         |             |                                 |            |             |                                  |
| 34 STD533717 Bolt 92 73800600 Locknut, Hex W/Wsh 3/8-16 UNC 35 133835 Fastner, Christmas Tree 130794 Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)  |            |             |                                 | 84         |             |                                  |
| 35 133835 Fastner, Christmas Tree - 130794 Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)  |            |             |                                 |            |             | Lockput Hoy WMob 2/9 16 LINC     |
| 36 131494 Pulley, Idler, Flat Numbers 8-10, 12-15, 31 and 32)  |            |             |                                 |            |             |                                  |
|  | 35         |             |                                 | * *        | 130/84      |                                  |
| 97 10191946 Machar 19/99 v 19/16 v 16/39 1/4/411 MANMAR LACK CAMPIATA  | 37         |             | Washer 13/32 x 13/16 x 16 Ga.   |            | 145411      | Mower Deck, Complete             |
| 37 19131316 Washer 13/32 x 13/16 x 16 Ga 145411 Mower Deck, Complete 40 73680600 Nut, Crownlock 3/8-16 UNC   |            |             |                                 |            | 174711      | morror boon, complete            |

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

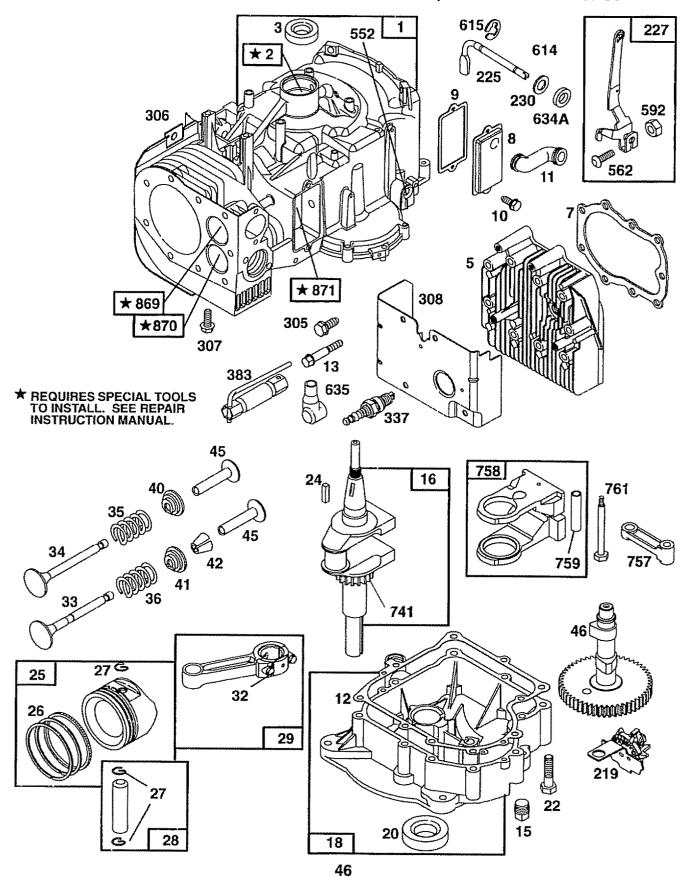
13 HP 42" TRACTOR - - MODEL NUMBER 917.257632
DANA TRANSAXLE - MODEL NUMBER 4360-79

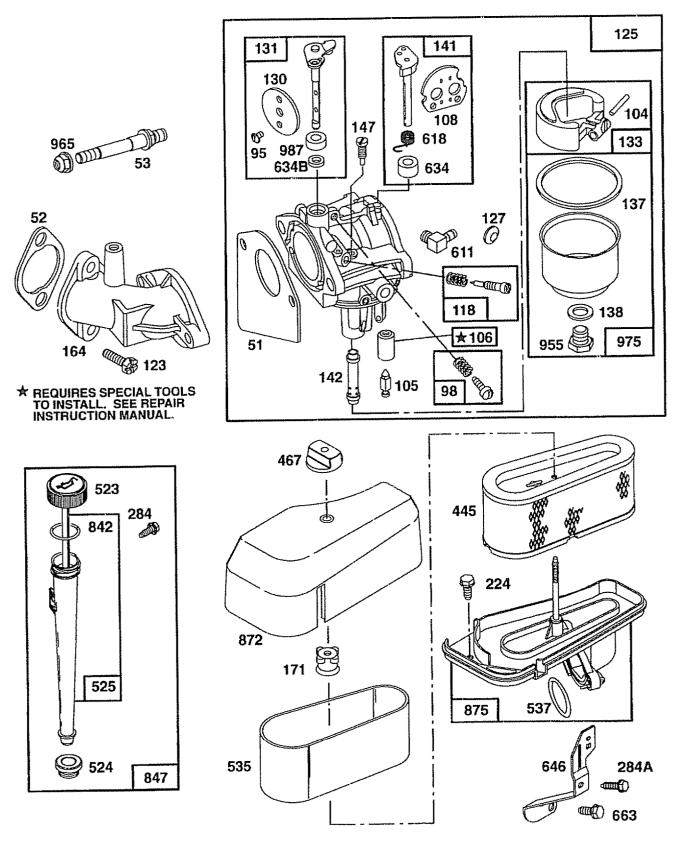


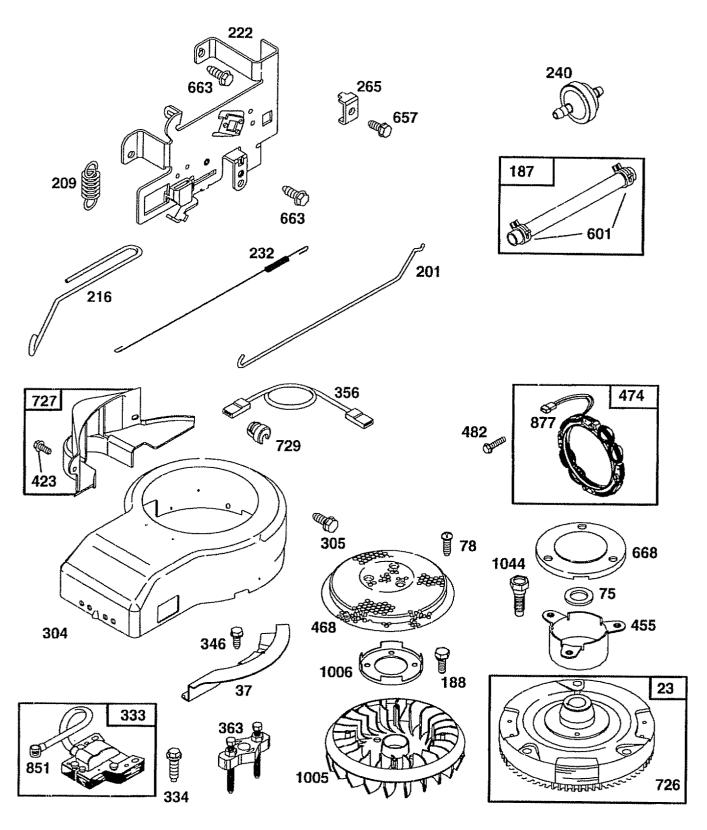
## 13 HP 42" TRACTOR - - MODEL NUMBER 917.257632

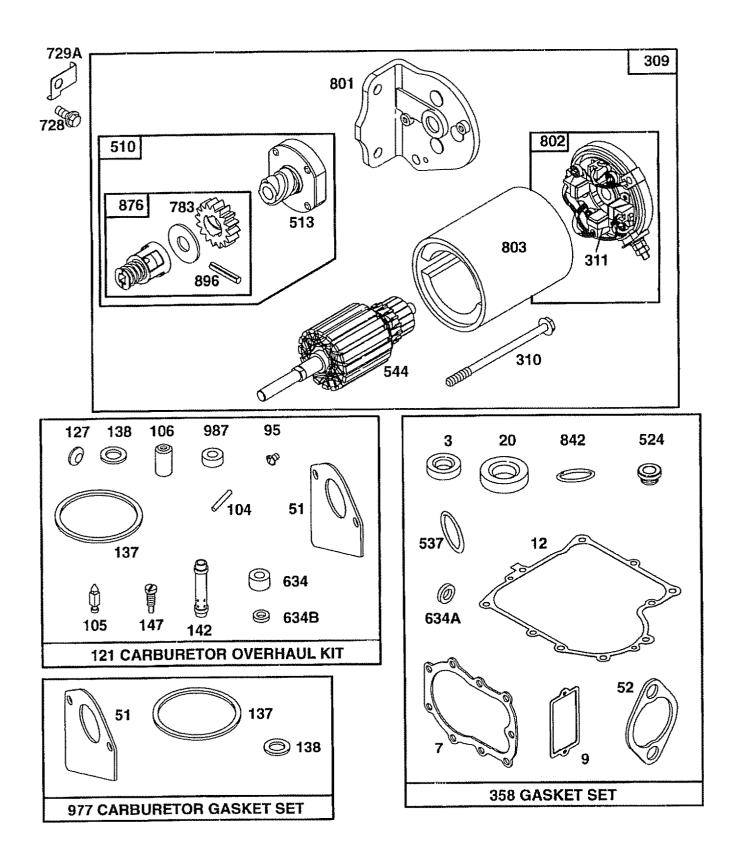
#### **DANA TRANSAXLE - MODEL NUMBER 4360-79**

|          | PART<br>NO.       | DESCRIPTION                      | KEY<br>NO. | PART<br>NO.             | DESCRIPTION                           |
|----------|-------------------|----------------------------------|------------|-------------------------|---------------------------------------|
| 1        | 142671            | Housing, Upper                   | 41         | 105928X                 | Sprocket, 9 Teeth                     |
| 2        | 2274J             | Screw, Self-Tapping, Large       |            | 110084X                 | Gear, Bevel, 42 Teeth                 |
| 2        | American 1997     | 1/4-20 x .734                    | 43         | 134394 *                | Assembly, Kit, Shim 750 Shaft         |
| 3        | 134400            | Ball, Detent                     | 44         | 120473X                 | Shaft, Drive                          |
| 4        | 105904X           | Spring, Detent                   |            | 142678                  | Gear, Spur, 12 Teeth                  |
| 5        | 105905X           | Screw, Set                       |            | 142679                  | Gear, Spur, 15 Teeth                  |
| 6        | 138235            | Kit, Shifter Assembly            |            | 120407X                 | Gear, Spur, 20 Teeth                  |
| 7        | 134399            | Boot, Shifter                    | 48         | 106589X                 | Gear, Spur, 25 Teeth                  |
| 8        | 134791            | Screw, Tapping w/Sealer          | 49         | 120408X                 | Gear, Spur, 28 Teeth                  |
| 9        | 138241            | Square Ring                      |            | 105937X                 | Gear, Spur, 31 Teeth                  |
| 10       | 142672            | Ring, Retaining                  |            | 2226J                   | Washer, Plain .632 x 1.00 x .060      |
| 11       | 134793            | * Assembly, Kit, Shim .625 Shaft |            | 134401                  | Washer, Neoprene                      |
| 12       | 142673            | Bearing, Flange                  |            | 2264J                   | Washer, Plain .758 x 1.25 x .031      |
| 13       | 120415X           | Washer, Plain .632 x 1.38 x .046 |            | 120474X                 | Axle, L.H.                            |
| 14       | 142674            | Key, Woodruff, #9                |            | 110081X                 | Gear, Miter, 15 Teeth                 |
| 15       | 138234            | Assembly, Kit, Input Shaft       |            | 105941X                 | Ring, Retaining                       |
| 16       | 110078X           | Pinion, Bevel, 14 Teeth          |            | 110071X                 | Gear, Spur, 32 Teeth                  |
| 17       | 105909X           | Ring, Retaining                  |            | 120952X                 | Shaft, Cross                          |
| 18       | 105910X           | Chain, 24 Pitches                |            | 110082X                 | Gear, Miter, 15 Teeth                 |
| 19       | 105911X           | Bearing, Flange                  |            | 120475X                 | Axle, R.H.                            |
| 20       | 142675            | Gear, Spur, 14 Teeth             | 61<br>62   | 142680<br>120961X       | Housing, Lower Puck, Friction         |
| 21       | 138246            | Collar, Clutch                   | 63         |                         | Disc, Brake                           |
| 22       | 138236            | Assembly, Kit, Clutch Keys       | 64         | 7294J<br>108989X        | Spacer                                |
| 23       | 73810500          | Locknut 5/16-24                  |            | 120953X                 | Jaw, Brake                            |
| 24       | 142676            | Shaft, Intermediate              | 66         | 120953X<br>120954X      | Pin, Dowel                            |
| 25       | 2244J             | Key, Woodruff, #61               | 67         | 134799                  | Screw, Self-Tapping, Large            |
| 26       | 105916X           | Ring, Retaining                  | U/         | 104733                  | 5/16-18 x 2.25                        |
| 27       | 120470X           | Sprocket, 18 Teeth               | 68         | 138244                  | Lever, Actuating                      |
| 28       | 110070X           | Spacer<br>Gear, Spur, 37 Teeth   | 69         | 108996X                 | Washer, Plain .321 x 1.00 x .055      |
| 29       | 142677            | Gear, Spur, 35 Teeth             | 70         | 120956X                 | Bracket, Anti-Rotation                |
| 30       | 142681            | Gear, Spur, 30 Teeth             | 71         | 106596X                 | Screw, Self-Tapping, Large            |
| 31       | 120405X           | Gear, Spur, 25 Teeth             | ,,         | 10000070                | 5/16-18 x 1.44                        |
| 32       | 108980X           | Gear, Spur, 22 Teeth             | 72         | 120951X                 | Puck, Friction                        |
| 33       | 120406X           | Gear, Spur, 19 Teeth             | 73         | 120416X                 | Grease                                |
| 34<br>35 | 134796<br>105925X | Washer, Plain .640 x 1.37 x .061 | 70         | 12071070                | G10000                                |
| 36       | 2232J             | Washer, Plain .632 x 1.00 x .026 | *          | Use in combin           | nations to maintain proper clearances |
|          | 108978X           | Spacer .630 x 1.00 x .169        |            |                         | ,                                     |
| 37<br>38 | 110079X           | Assembly, Gear, Combination of   | **         | Order Key No            | . 15                                  |
| ٥٥       | 1100/37           | 12 Teeth and 35 Teeth            |            | 3.22, 1. <b>2</b> , 1.0 | · ·                                   |
| 39       | 124639X           | Shaft, Idler                     | NOT        | E: All compon           | ent dimensions given in U.S. inches   |
| 40       | 120472X           | Spacer .635 x .875 x .755        |            | 1 inch = 25             | .4 mm                                 |









| KEY<br>NO. | PART<br>NO. | DESCRIPTION                      |     | PART<br>NO. | DESCRIPTION                            |
|------------|-------------|----------------------------------|-----|-------------|--|
| 1          | 496413      | Cylinder Assembly                | 52  | 272554      | * Gasket, Carburetor                   |
| 2          | 399265      | Bearing, Cylinder                | 53  | 94637       | Stud, Carburetor Mounting              |
| 3          | 391086      | * Seal, Oil                      | 75  | 224061      | Washer, Spring                         |
| 5          | 494240      | Head, Cylinder                   | 78  | 94626       | Screw, Sems                            |
| 6          | 22963       | Washer, Flat                     | 95  |             | ** Screw, Throttle                     |
| 7          | 271866      | * Gasket, Cylinder Head          | 98  | 495800      | Screw, Idle Adjust                     |
| 8          | 495735      | Breather Assembly                |     | 231789      | ** Pin, Float Hinge                    |
| •          |             | (Includes Mounting Gasket)       | 105 | 231855      | ** Valve, Inlet Needle                 |
| 9          | 27803       | * Gasket, Valve Cover            | 106 | 231854      | ** Seat, Inlet                         |
| 10         | 94621       | Screw, Sems                      | 108 | 224540      | Valve, Choke                           |
| 11         | 280100      | Tube, Breather                   | 118 | 494383      | Valve, Needle                          |
| 12         |             | * Gasket, Crankcase Cover, 1/64" |     | 94616       | Screw, Elbow Mounting                  |
|            | 271997      | * Gasket, Crankcase Cover, .005" |     | 495706      | Carburetor                             |
|            | 271996      | * Gasket, Crankcase Cover, .009" | 127 |             | ** Plug, Welch (Sold in Kit Only)      |
| 13         | 94622       | Screw, Cylinder Head             |     | 224539      | Valve, Throttle                        |
| 15         | 94239       | Plug, Oil Drain                  |     | 494379      | Shaft, Throttle                        |
| 16         | 495162      | Crankshaft                       |     | 494381      | Float, Carburetor                      |
|            | 94196       | Key, Timing Gear                 | 137 | 281165      | *** Gasket, Float Bowl                 |
| 18         | 494238      | Base, Engine                     | 138 | 281164      | *** Washer, Float Bowl                 |
| 20         | 291675      | * Seal. Oil                      |     | 495931      | Shaft, Choke                           |
| 22         | 94624       | Screw, Sems, Base Mounting       | 142 | 494537      | ** Nozzle, Carburetor                  |
| 23         | 492326      | Flywheel                         | 147 | 231794      | ** Pilot, Jet                          |
| 24         | 222698      | Key, Flywheel                    |     | 213819      | Carburetor, Elbow                      |
| 25         | 394661      | Piston Assembly, Standard Size   | 171 | 281051      | Nut, Air Cleaner                       |
|            | 394662      | Piston Assembly, .010" Oversize  | 187 | 393815      | Line, Fuel (11" Long, Cut to Suit)     |
|            | 394663      | Piston Assembly, .020" Oversize  | 188 | 94627       | Screw, Sems                            |
|            | 394664      | Piston Assembly, .030" Oversize  | 201 | 262767      | Link, Governor                         |
| 26         | 391780      | Ring Set, Standard Size          | 209 | 260871      | Spring, Governor                       |
| -          | 392331      | Ring Set, Standard Size, Chrome  | 216 | 262766      | Línk, Choke                            |
|            | 391781      | Ring Set, .010" Oversize         | 219 | 490815      | Gear, Governor                         |
|            | 391782      | Ring Set, .020" Oversize         | 222 | 495611      | Plate, Governor Control                |
|            | 391783      | Ring Set, .030" Oversize         | 224 | 94729       | Screw, Hex Head                        |
| 27         | 260924      | Lock, Piston Pin                 | 225 | 231058      | Crank, Governor                        |
| 28         | 299691      | Pin, Piston, Standard Size       | 227 | 493935      | Lever Assembly, Governor               |
|            | 391286      | Pin, Piston, 005" Oversize       |     | 94742       | Washer, Governor Crank                 |
| 29         | 490348      | Rod, Connecting                  |     | 262785      | Spring, Governor Link                  |
|            | 490469      | Rod, Connecting, .020" Undersize |     | 394358      | Filter, Fuel                           |
| 32         | 94671       | Screw, Connecting Rod            |     | 221535      | Clamp, Casing                          |
| 33         | 262246      | Valve, Exhaust                   |     | 94073       | Screw, Hex Head                        |
| 34         | 262247      | Valve, Intake                    |     | A 94704     | Screw, Hex Head                        |
| 35         | 65906       | Spring, Valve                    | 304 | 496280      | Housing, Blower                        |
| 36         | 26828       | Spring, Valve                    |     |             |  |
| 37         | 224502      | Guard, Flywheel                  | *   |             | n Gasket Set (494241)                  |
| 40         | 221596      | Retainer, Intake Valve           | **  | Included i  | n Carburetor Kit (495799)              |
| 41         | 292260      | Rotocoil, Exhaust Valve          | *** | Included i  | n both Carburetor Kit (495799),        |
| 42         | 93630       | Retainer, Rotocoil               |     | and Carbo   | uretor Gasket Set (494385)             |
| 45         | 262248      | Tappet, Valve                    |     |             |  |
| 46         | 212897      | Gear, Cam                        | NO  |             | ponent dimensions given in U.S. inches |
| 51         | 272465      | *** Gasket, Carburetor           |     | 1 inch =    | = 25.4 mm                              |

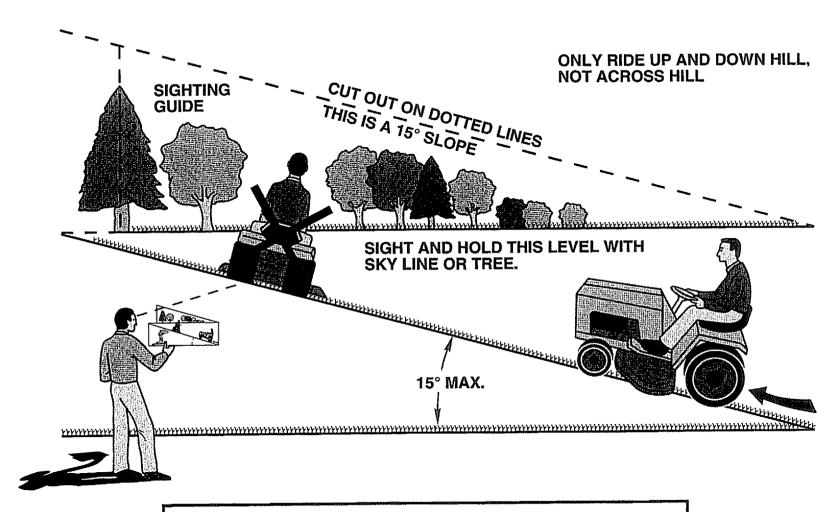
| KEY PART<br>NO. NO. | DESCRIPTION                                     | KEY PART<br>NO. NO. | DESCRIPTION                          |
|---------------------|---|---------------------|--------------------------------------|
| 305 94729           | Screw, Hex Head                                 | 668 280848          | Spacer                               |
| 306 224545          | Shield, Cylinder                                | 726 392134          | Gear, Ring                           |
| 307 94623           | Screw, Sems                                     | 727 490324          | Cover, Starter                       |
| 308 491490          | Cover, Cylinder Head                            | 728 94627           | Screw, Hex Head                      |
| 309 394805          | Motor, Starter                                  | 729 281159          | Clip, Lead Wire                      |
| 310 94003           | Thru Bolt Assembly                              | 729A 24723          | Retainer, Wire                       |
| 311 395538          | Brush Assembly                                  | 741 262962          | Gear, Timing                         |
| 332A 94314          | Nut, Hex  | 757 213998          | Link, Counterweight                  |
| 333 492341          | Armature, Magneto                               | 758 399891          | Counterweight Assembly               |
| 334 93381           | Screw, Sems                                     | 759 298909          | Pin, Counterweight                   |
| 337 802592          | Plug, Spark                                     | 761 94593           | Screw, Counterweight                 |
|                     | Screw, Hex Head                                 | 783 280104          | Gear                                 |
| 346 93705           | Wire Assembly                                   | 801 394856          | Cap, Drive                           |
| 356 494328          | Gasket Set                                      | 802 395537          | Cap, End                             |
| 358 494241          | Puller, Flywheel                                | 803 398159          | Housing, Starter                     |
| 363 19203           | Wrench, Spark Plug                              | 842 270920          | * Seal, Cap                          |
| 383 89838           | Screw, Sems                                     | 847 496415          | Tube Assembly, Oil                   |
| 423 94073           | Cartridge, Air Cleaner                          | 851 221798          | Terminal, Ignition Cable             |
| 445 493909          | Cup, Screen Mounting                            | 869 261463          | Seat, Intake Valve                   |
| 455 222561          | Knob, Air Cleaner                               | 870 213316          | Seat, Exhaust Valve                  |
| 467 493903          | Screen, Rotating                                | 871 261961          | Guide, Exhaust Valve                 |
| 468 224948          | Stator, Alternator                              | 231218              | Guide, Intake Valve, Brass           |
| 474 393474          |   | 872 281361          | Cover, Air Cleaner                   |
| 482 93621           | Screw, Sems<br>Starter Drive Group              | 875 494237          | Body, Air Cleaner                    |
| 510 495878          | Clutch Assembly                                 | 876 495877          | Kit, Spring                          |
| 513 398003          | Dipstick, Oil                                   | 877 393456          | Diode Assembly                       |
| 523 495230          |   | 896 94288           | Roll Pin                             |
| 524 68838           | * Seal, Oil<br>Tube, Oil Filler                 | 955 94642           | Screw, Fuel Bowl                     |
| 525 496113          |   | 965 94010           | Nut, Hex                             |
| 535 272403          | Element, Filter                                 | 975 494378          | Bowl, Float                          |
| 537 281106          | * O-Ring, Air Cleaner                           | 977 494385          | Carburetor Gasket Set                |
| 544 390837          | Armature, Starter                               | 987 281166          | ** Seal, Throttle Shaft              |
| 552 231597          | Bushing, Governor Crank<br>Bolt, Governor Lever | 1003 490316         | Spring Set                           |
| 562 92613           |   | 1005 281355         | Fan, Flywheel                        |
| 592 231082          | Nut, Hex  | 1006 224413         | Retainer, Fan                        |
| 601 93053           | Clamp, Fuel Pipe<br>Elbow, Fuel Pipe            | 1044 94673          | Screw, Hex Head                      |
| 611 494451          |   | (01. 0.0.           |                                      |
| 614 93306           | Pin, Cotter                                     | * Included in G     | asket Set (494241)                   |
| 615 93307           | Retainer, E-Ring                                | ** Included in C    | arburetor Kit (495799)               |
| 618 262803          | Spring, Choke Return                            | *** Included in b   | oth Carburetor Kit (495799),         |
| 634 281168          | ** Seal, Choke Shaft                            | and Carbure         | tor Gasket Set (494385)              |
| 634A 491323         | * Seal, Governor                                | and January         | (4)                                  |
| 634B 398970         | ** Washer, Throttle Shaft                       | RPM Settings:       | Low: 1900-2100, High: 3000-3200      |
| 635 66538           | Elbow, Spark Plug                               | 111 141 001011901   |                                      |
| 646 224546          | Brace, Air Cleaner                              | NOTE: All compo     | nent dimensions given in U.S. inches |
| 657 93496           | Screw, Sems                                     | 1 inch = 2          |                                      |
| 663 94620           | Screw, Hex Head                                 | 1 11011 E-          | W 4                                  |

# **SERVICE NOTES**

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# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

# SEARS OWNER'S MANUAL

MODEL NO. 917.257632

#### IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER:

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# **CRAFTZMAN®**

#### 13.0 HP IC ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

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- PRODUCT TRACTOR
- MODEL NUMBER 917.257632
- ENGINE MODEL NO. 28M707, TYPE NO. 0137-01
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

145416 07.11.94

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